

N<sup>o</sup> 174 *Rodus*  
Wild Cherry

N<sup>o</sup> 205 *Rubus*  
Blackberry

Botanic  
Manuscript  
of

Jane Colden

1724 1766

N<sup>o</sup> 13 *Calamintha*

N<sup>o</sup> 8 *Melissa*

First  
Woman Botanist  
of

Colonial America



# JANE COLDEN

In the year 1728, Lieutenant Governor Cadwallader Colden and his wife took their family of six children from the busy life of New York to live in the small, solid home he built in the midst of the vast acreage he had acquired in what is now a part of Orange County, New York. This home was known as "Coldenham," and the town which later grew around it still bears that name.

The Lieutenant Governor, a graduate physician of the University of Edinburgh, was a botanist of distinction, and he and his wife were the only teachers their small children ever had. Jane, their second daughter, very early showed evidence of being fascinated by all plant life. Under her father's guidance, she soon became a dedicated student of botany. — We like to imagine this beautiful young girl tramping the wild woodlands which surrounded her home, accompanied by a faithful man-servant

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Jane Colden







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in commemoration of the Fiftieth Anniversary of its founding

in April 1913

the Garden Club of Orange and Dutchess Counties

one of the twelve founding clubs of the Garden Club of America,

dedicates the publication of the Jane Colden Farquhar Manuscript,

the work of the first woman botanist of Colonial America, 1724-1766

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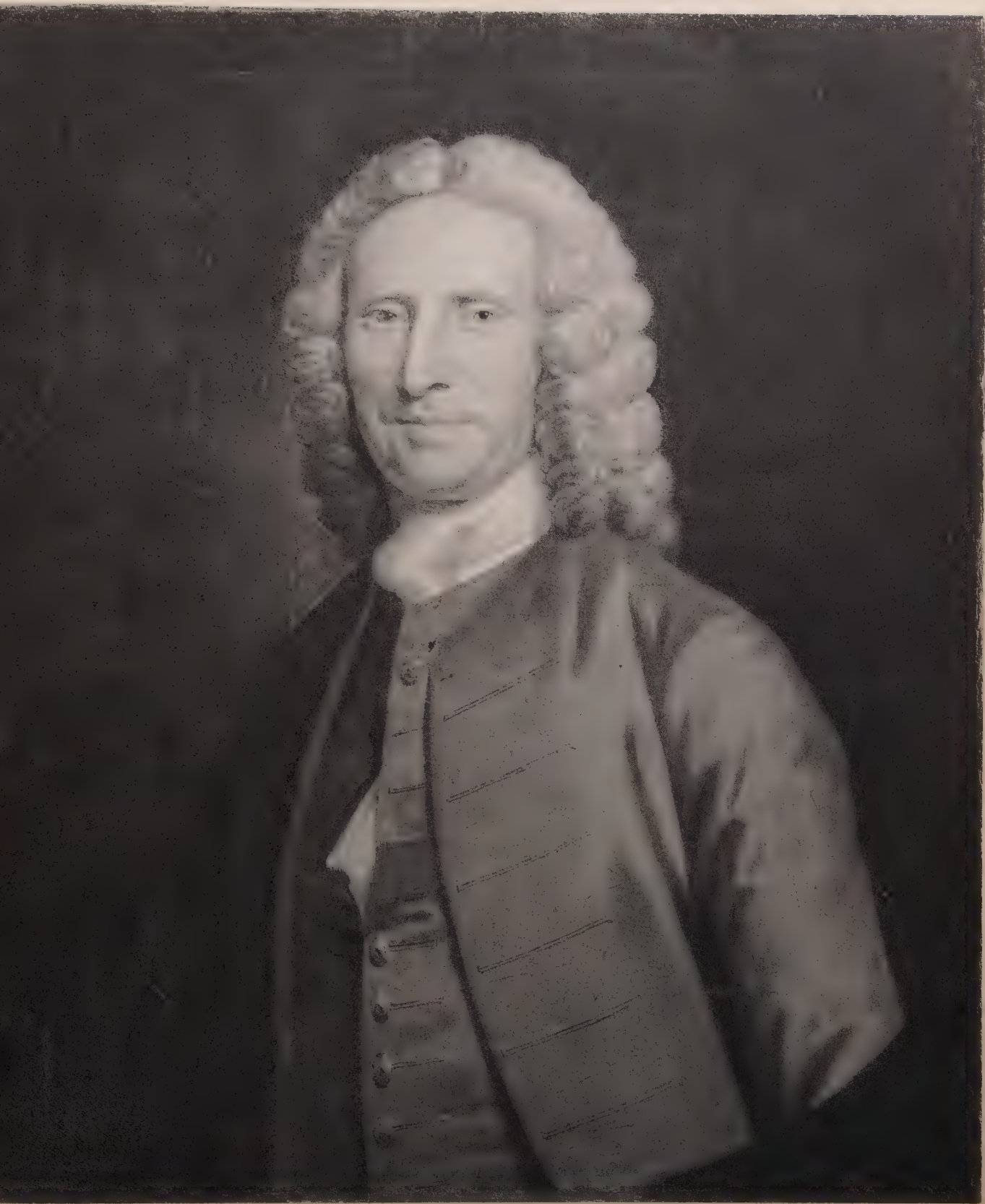


Alice Christy Colden









Cadwallader Colden (1688—1776)







Sir Joseph Banks (1743—1820)





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Sarah Gildersleeve Fife Research Librarian,  
both of the New York Botanical Garden.

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# The Gentlewoman, Jane Colden, and Her Manuscript on New York Native Plants

JANE Colden, our first American woman botanist, lived in pre-Revolution eighteenth century New York. Her original manuscript, dealing with the native plants that she found growing in Colonial New York, written and illustrated by her, is now, ironically enough, on the other side of the Atlantic Ocean, in the possession of the British Museum (Natural History) in London. But more about this fascinating work later.

Miss Colden was the daughter of an extraordinary—indeed, an amazing man—Cadwallader Colden—one of the best informed persons in the British Colonies. He corresponded with world-famous statesmen, amateur plant enthusiasts, and professional scientists—Benjamin Franklin, John and William Bartram, Alexander Garden, Peter Kalm, Peter Collinson, the Earl of Macclesfield, J. F. Gronovius, the great Carl Linnaeus, and numerous other important men of that period who knew him and esteemed him highly. Dr. Colden held many important offices. He was Surveyor General of the Colony of New York from the time of his appointment by Governor Robert Hunter in 1720 until 1762, when he was succeeded by his eldest son Alexander, and he was Lieutenant-Governor of New York from 1761 until his death in 1776. Moreover, he was a historian of note. His *History of the Five Indian Nations Depending upon New York*, published in 1727, was “the earliest and rarest local history of New York written and printed in the Colony.” And yet, this busy man, no doubt with the assistance and enthusiasm of his talented young daughter, Jane, found time to write the first local flora of any part of the present state of New York, entitled *Plantae Coldenhamiae*, which was an account of the native plants that grew on his country estate. This was published in the *Transactions of the Royal Society of Science*, at Upsala, Sweden. Shortly after the appearance of this paper, Linnaeus named a new genus of plants *Coldenia* in his honor. Dr. Colden’s extensive writings on mathematics, astronomy, botany, medicine, history, metaphysics, and theology give proof of his intellectual versatility and of his vast fund of knowledge.

Authentic notes on the life of his gifted daughter are fragmentary and are scattered through numerous letters, genealogies, and biographies. A few poignant facts may be gleaned from the *Genealogical Notes of the Colden Family in America* by Edwin R. Purple. We read that Jane, the fifth child of a family of ten, was born in New York, March 27, 1724, and that “It adds to the credit of



Miss Colden's literary and scientific achievements, that she was favored with no other advantages of learning, than such as she received at home from her father and mother." She was married on March 12, 1759, to Dr. William Farquhar, "a widower; a very worthy good Scotchman, and for some years before the Revolutionary War a practitioner of medicine, distinguished for his knowledge and abilities, in New York City and vicinity." And finally, we learn that she died on March 10, 1766, and that her only child also died in 1766.

Jane was four years old when Dr. Colden, with his wife and six young children, moved to what is now the town of Montgomery, Orange County, behind the highlands of the Hudson, about ten miles west of Newburgh. He had been fortunate to receive a grant of 2,000 acres and later another grant of 1,000 acres which he obtained through the friendship and favorable regard of Governor Hunter. The name of "Coldenham" was given to his new home. He was then one of the great landowners of the Colony and it was here at "Coldenham" that Jane grew up and acquired her outstanding knowledge of plants and their virtues.

Before the Coldens moved permanently from the city life of New York they made occasional brief visits to their future country home. "Farmer" Colden wrote in his Journal of 1727: "On the 15th of August we sow'd 4 1/10 Bushels Rye upon a summer fallow after Indian Corn. The ground was very mellow. Sow'd under furrow about 3 acres. At the same time sowed some spinage in the Garden. . . . On the 13th of Sept'r we pull'd our Seed hemp. The same day I throw'd small quantities of hop Clover behind the house. . . . The 20th of Oct'r I put a parcel of Haws into hole in ye ground in ye second trench from the fence behind the house at the end next the cow pen to be sown next fall. About that time I pail'd the Garden. The Posts & rails of Chestnut made of trees that had been kill'd about 3 or 4 years & the Clapboards or pails of white oak from trees fell'd about ye 10th of this month. The rails of ye 5th & 7th pannels from ye Garden door next ye brook were of red oak rails that had been cut 6 or 7 years."

For the Colden children there was no school near their new home in the wilderness. Because her illustrious husband was frequently absent on public business, the duties of instructress fell upon the shoulders of Mrs. Colden. She was the daughter of a clergyman and had spent her girlhood in Scotland in an intellectual and cultural atmosphere. Her background and training admirably fitted this gentle lady for her responsibilities in the New World.

Anna Murray Vail, in her *Jane Colden, an Early New York Botanist*, comments on Mrs. Colden's capabilities: "She is said to have taught them habits of virtue and economy and gave them in her life and character the brightest of examples, so it can be presumed that her daughters were apt scholars in the accomplishments required of well-bred and trained gentlewomen of the day."

However, it was under the direction of her father that Jane showed her great aptitude in botany. It was he who taught her the new Linnaean system of classifying and describing plants and who translated the Latin technical terminology into simple English words. He showed her how to make impressions of leaves on paper with printer's ink. Under his tutelage, she developed such proficiency

in observing plant characteristics and in accurately describing them that she was able to commence her illustrated flora of New York.

Jane was also inspired in her quest for botanical knowledge by the visits to "Coldenham" of distinguished botanists and plant collectors. Among these were John and William Bartram of Philadelphia, Dr. Alexander Garden of Charleston, South Carolina, and Peter Kalm of Sweden. There are frequent references in the correspondence of John Bartram and of Dr. Garden to exchanges of seeds with Miss Colden.

A fourteen-year-old lad, named Samuel Bard, passed the summer of 1756 with the Colden family. His father, a close friend of Lieutenant-Governor Colden, was worried about his son's ill health and believed that a change from city life would prove beneficial for his boy. The Reverend John M'Vickar, in his *A Domestic Narrative of the Life of Samuel Bard, M. D.* observes: This residence not only restored him to health, but filled his memory with pleasing recollections both of the society and studies to which it introduced him. In the family resided Miss Colden. . . . With this lady, differing in years but united in tastes, Mr. Bard formed an intimate friendship; under her instruction he became skilful in botanizing, a pursuit which ever remained to him a favorable amusement, and which owed, perhaps, a part of its attractions to the pleasing associations with which it was originally connected, since to the end of life, he never mentioned the name of his instructress without some admiration or attachment."

Dr. Colden appreciated the value of good botanical books and in a letter to Peter Collinson of England he wrote: " . . . As she [Jane] cannot have the opportunity of seeing plants in a Botanical Garden I think the next best is to see the best cuts or pictures of them for which purpose I would buy for her Tournefort's *Institutiones Herbariae*, Morison's *Historia Plantarum*, or if you know any better books for this purpose as you are a better judge than I am will be obliged to you in making this choice." Collinson replied: "I have at last been So lucky to get you a fine Tournefort's *Herbal* & the *History of Plants* and Martin in excellent preservation to which have added 2 Volumes of *Edinburgh Essays* for the sake of the Curious Botanic Dissertation of your ingenious daughter being the Only Lady that I have yet heard of that is a professor of the Linnaean System of which He is not a little proud."

Collinson's reference to the "Curious Botanic Dissertation of your ingenious daughter" concerns one of Miss Colden's plant descriptions that had been published in Scotland. James Britten, in his paper *Jane Colden and the Flora of New York* writes: "The plant (*Hypericum virginicum*) . . . had been sent her by Alexander Garden, who found it at New York in 1754; in return, Miss Colden sent him the description of the same plant, which she had discovered during the previous summer, and, 'using the privilege of a first discoverer she was pleased to call this new plant *Gardenia*, in compliment to Dr. Garden.'" [It was John Ellis, an English botanist with whom Dr. Garden had corresponded, who named the lovely shrub, popularly called Cape Jasmine, *Gardenia jasminoides* and who under strict "botanical law" had the right to retain this name for *his* plant.]

And now, we may consider, in some detail, Jane Colden's "pretty large volume in writing" of descriptions and drawings of the plants which she had observed in her natal New York. We find an entry in the *Catalogue of the Books, Manuscripts, Maps and Drawings in the British Museum (Natural History)* thus—COLDEN afterwards Farquhar (Jane) [Autograph MS:] Flora Nov-Eboracensis. Plantas in solo natali collegit, descripsit, delineavit, Coldenia C. Coldens filia, &c. fol.

What acts of chance and circumstance took this "Americana" gem to foreign shores? Evidence is elusive as to when or how, after Jane's death, it reached the hands of Captain Frederick von Wangenheim who was a Prussian serving in a Hessian regiment during the American Revolution. He was a forester, which fact may well account for his interest in a document of this kind. It is recorded that it next passed into the possession of Godfrey Baldinger who was Professor of Botany and Medical Theory at the University of Göttingen and later at the University of Marburg. From Baldinger it reached the wealthy scientist and benefactor, Sir Joseph Banks who was president of the Royal Society for over forty years. On his death it went with his collection of books and botanical specimens to the British Museum.

There is affixed to this manuscript a prefatory note signed by Captain von Wangenheim and the title page which the manuscript now bears was added by Professor Baldinger. The entire work consists of 340 drawings ("the figures are merely ink outlines washed in with neutral tint"). Miss Colden has numbered the sheets (on which she planned to write her descriptions) from 1 to 341 but there are some pages with only the name of the plant written at the top of the sheet.

In reading her notes, which are written in a very legible hand, one marvels at her ability to observe and evaluate the minutest details of the plant that she is studying. It is evident that from her chattings with the "Country People" and with the Indians she learned much about the homely uses of these plants. She writes: "The Country People here make a Tea of the Leaves [of Mountain Mint] and use it for pain or sickness at their stomach" . . . "I came to the knowledge of it [Gold Thread] by their using a Decoction of the Root, for the sore Throate that Children often get in the Mouth, they also use it for the Canker sore Throat, as they call it, this has been frequent in this Country, the Leaves & Root are very bitter" . . . "Aralia Shrub, *Aralia spinosa*, Called here Prickly Ash. The Indians make a Decoction of the Bark of this Shrub & use it for long continued Coughs, & likewise for the Dropsy." . . . "The Annies Flavoured Golden Rod. Annies flavour of both Stalk & Leaves, distinguish this from the other Species. This put into spirits makes a pleasant Dram." . . . "Wild Allspice, Spicewood . . . the Bark, Leaves & Berries have all a Spicy Taste, the Berries most so, and are used by the Country People in the Stead of Spice in Cookery" . . . "Pokeweed . . . Some curious persons in England have endeavoured to propagate this plant by the seed [brought] from America, but could not produce any plant from the Seed. The propagation from this plant is maked in America in the Dung of birds. For this reason it may be necessary to give in Europe the



berries to birds, & to plant the Seeds with the Dung of the fowls, through which they pass entire."

There is such a delightful freshness and spontaneity to Jane's style that it is a pity that only this unfinished fragment of her botanical zeal and skill has survived. We find no evidence that she continued her plant studies after her marriage. Apart from brief mention in genealogies, interesting facts concerning her married life are difficult to find. We must conjecture that prior to her marriage she did her full share of the household tasks in the Colden home capably. Some unsigned records that have been discovered among her father's scientific papers have been fairly identified as hers. Miss Vail, in her paper on Jane Colden states: . . . "it does not seem unreasonable to suppose that the 'Memorandum of Cheese made in 1756' is in Jane's writing. This 'Memorandum' consists of five sheets of fools-cap and is the careful and painstaking record of her year of cheesemaking . . . Later, in the following November she weighed her cheeses and notes their reduced bulk, and there are also notes as to how they eventually tasted. At the end of the sheets she made a list of her milkings and the sales of her butter, showing that in the year she sold 348 pounds of butter that netted her £12.13.3. She even did not omit the names of the purchasers of her butter, nor the amounts sold each time."

In a letter from Edinburgh, Oct. 20th 1760, from Dr. Whytt to Dr. Colden, we read: "It gives particular pleasure to hear of your Daughter Miss Jennys being happily married. Dr. Alston desires to join in Compliments to her." Most amusing is a letter of May 16th, 1759, from Jane (Mrs. William Farquhar) to her sister Katharine Colden. ". . . My dear Mr. Farquhar is confined to his Chair (at least can stir but little from it) & I ought to be with him to divert him all I can. I did not tell Papa how he got his hurt but I will tell you, & will excuse your laughing at the manner it was done, for I know you will be sorry for the effect. I came into the Parlour where he was, with (as he afterwards told me) a mighty demure face, to remove which, he took me up in his arms, was suddenly turning around with me & Renched the Sinews of his Thigh. He seemed in a good deal of pain at first, but I little thought it would grow as bad as it is now & I fear he will not soon get well of it. O Cate, if you had a Husband you would feel for every little Sickness or pain he had in a manner you know nothing of before . . ."

And so, we get a delightful and privileged glimpse of Mistress Jane Colden Farquhar, the devoted young bride.

ELIZABETH C. HALL,  
Sarah Gildersleeve Fife Research Librarian,  
The New York Botanical Garden

# Jane Colden as Botanist

## in contemporary opinion

WHEN Cadwallader Colden removed to the country in 1728 he “made a small spot of the world, which, when [he] first entered upon it, was the habitation only of wolves and bears and other wild animals, now no unfit habitation for a civilized family.” This was the remote and wild setting of Jane’s childhood and young womanhood; but her isolation was mitigated by the visits of botanists and others to her distinguished father and by his voluminous correspondence with European naturalists. Even so, it is surprising that an amateur in the New York wilderness could, in a few years, achieve something of an international reputation.

The explanation lay partly in the fact that the amateur was a woman. Colden, writing to Gronovius in 1755, said: “I thought that botany is an amusement which may be made agreeable to the ladies, who are often at a loss to fill up their time. Their natural curiosity, and the pleasure they take in the beauty and variety of dress, seems to fit them for it.” (This was more than half a century before the appearance of Mrs. Lincoln’s book\*.) He supposed, further, that the chief reasons why the ladies had not actually applied themselves to the study of plants were that the books were all in Latin, and the terms used all technical. All this has a modern ring. But young ladies of the eighteenth century were not supposed to acquire any book-learning. Colden, finding that Jane’s tastes inclined her towards study, taught her the Linnaean system in English. In the same letter to Gronovius we read further: “I have a daughter who has an inclination to reading, and a curiosity for natural philosophy or natural history, and a sufficient capacity for attaining a competent knowledge. I took the pains to explain Linnaeus’s system, and to put it in an English form for her use, by freeing it from the technical terms, which was easily done by using two or three words in place of one. She is now grown very fond of the study, and has made such a progress in it as I believe would please you, if you saw her performance. Though perhaps she could not have been persuaded to learn the terms at first, she now understands in some degree Linnaeus’s characters, notwithstanding that she does not understand Latin. She has already a pretty large volume in writing, of the descriptions of plants . . . That you may have some conception of her performance and her manner of describing, I propose to inclose some samples in her own writing, some of which I think are new genus’s. One is the *Panax foliis ternis ternatis* [dwarf ginseng]. . . . Two more I have not found described anywhere; and in the others you’ll find

\* *Familiar Lectures on Botany* by Mrs. Almira H. Lincoln, Vice-principal of Troy (New York) Female Seminary, first edition published 1829, Hartford, Conn. In the introduction of her first lecture Mrs. Lincoln states: “The study of botany seems particularly suited to females; the objects of its investigation are beautiful and delicate.”

some things particular, which I think are not taken notice of by any author I have seen."

Allowing for the usual pride of a father in the accomplishments of his child—and remembering that Jane was one of six—we see here clear evidence of real aptitude for descriptive botany. This is confirmed by such fragments of the contemporary correspondence of botanists as have survived. That enthusiastic and indefatigable naturalist John Bartram mentions having visited Coldenham in 1753 and having there "looked over some of the Doctor's daughter's botanical, curious observations" ("curious" as indicating curiosity, not in the sense of "peculiar"). Alexander Garden (who had met Bartram at Coldenhamia in 1754) wrote to John Ellis: "Not only the doctor himself is a great botanist, but his lovely daughter is greatly master of the Linnaean method, and cultivates it with great assiduity." The "Linnaean method" was that of the *Genera plantarum* (which Garden first saw in Colden's house): a uniform method of describing plants and a classification based chiefly on flower-parts. The *Species plantarum* of 1753, with its introduction of "trivial names" (what we now call the specific epithets), would not then have reached New York. Garden again mentions Jane, in complimentary terms, in a letter to her father early in 1755 (but apparently, by some such expression as "his lovely daughter," had incurred their displeasure, for which he begs their forgiveness in a second letter of the same year).

But the expressions of European botanists are perhaps even better testimony to Jane's competence in botany, for they little thought that proficiency in the "Linnaean method" could be found in a trans-Atlantic wilderness, and in a woman at that. Peter Collinson, an enthusiastic amateur and correspondent of Carl Linnaeus, wrote to Bartram in 1756 that "Our friend Colden's daughter has, in a scientific manner sent over [for Gronovius] several sheets of plants, very curiously anatomized [i.e. analyzed with keen observation] after his [Linnaeus'] method. I believe she is the first lady that has attempted anything of this nature." And the same Collinson wrote in the same year to Linnaeus himself: "What is marvelous his [Colden's] daughter is perhaps the first lady that has perfectly studied your system. She deserves to be celebrated." In the following year he informed Linnaeus that "In the 2d vol. of Edinburgh Essays, is published a Latin botanic dissertation, by Miss Colden; perhaps the only lady that makes profession of the Linnaean system; of which you may be proud." Again in 1758 he pursued the same topic, to the same address: "Last week my friend, Mr. Ellis, wrote you a letter, recommending a curious botanic dissertation, by Miss Jane Colden. As this accomplished lady is the only one of the fair sex that I have heard of, who is scientifically skillful in the Linnaean system, you will no doubt distinguish her merits, and recommend her example to the ladies of every country." The letter from Ellis to which he refers says that "Mr. Colden of New York has sent Dr. Fothergill a new plant, described by his daughter. . . . This young lady merits your esteem and does honour to your system. She has drawn and described 400 plants in your method only; she uses English terms." He suggested that Linnaeus name the new genus for her, but that great botanist erroneously placed it in a genus already known, *Helleborus*; it was subsequently named *Coptis* by Richard Anthony Salisbury.



Just what Linnaeus thought of Jane's accomplishments has unfortunately not survived in such correspondence as I have seen. We may, however, infer his reception of the encomiums quoted above by another letter to him from Ellis in 1758 in which the writer says "I shall let her know what civil things you say of her—her Christian Name is Jane." We may, I think, assume that Linnaeus valued Jane's contributions to botany as he valued those of Kalm, Loeffling, Forskål, and his other disciples who were seeing nature in the light of his system. Colden himself is mentioned in the *Species plantarum* of 1753, and again in the second edition of 1763, as having contributed "differentias" (i.e. descriptions of species). But Jane herself is not named by Linnaeus, and we can assign to her only the credit of having been one of "the others" (*aliique*) who contributed to his great synthesis of botany. This was a great time for the science, when, upon the stimulus of the master's writings, many persons all over the known world were contributing descriptions of species previously unknown. It is safe to say that Jane Colden was the only feminine member of that company.

Returning to this side of the ocean, we find what is perhaps the most interesting letter of all, a long one from Bartram to Jane herself dated 24 January 1757. It is worth quoting at length.

"Respected friend Jane Colden:—

I received thine of October the 26, 1756, and read it several times with agreeable satisfaction; indeed, I am very careful of it, and it keeps company with the choicest correspondence,—European letters.

The Viney plant thee so well describes, I take to be the Dioscorea of Hill and Gronovius; though I never searched the characters of the flower so curiously as I find thee hath done; but pray search them [in?] books, thee may presently find that article.

I should be extremely glad to see thee once at my house, and to show thee my garden. . . . I showed [my son Billy] thy letter, and he was so well pleased with it, that he presently made a packet of very fine drawings for thee, far beyond Catesby's, took them to town, and told me he would send them very soon."

The rest is about various plants; a discussion which in itself is an implicit tribute to Jane's botanical stature. Bartram writes to her as to one equally competent in botany.

Finally we may notice a letter from a Scotchman, Walter Rutherford, not a botanist, who visited Colden in 1758 and wrote to a friend at home: "His daughter Jennie is a Florist and Botanist, she has discovered a great number of Plants never before described and has given their Properties and Virtues, many of which are found useful in Medicine, and she draws and colours them with great beauty. . . . N.B. She makes the best cheese I ever ate in America." On this note perhaps we may take leave of Jane Colden the botanist. She married the following year, and doubtless from then to the end of her short life was absorbed in domestic cares.

H. W. RICKETT, Ph. D.

Bibliographer and Senior Curator (of the Library)  
The New York Botanical Garden

# Fifty-seven Descriptions from Jane Colden's "Flora of New York"

## *A Note on the Descriptions*

THE descriptions of plants reproduced in the following pages have been selected on three criteria: (1) they describe species native to North America; (2) they represent either familiar, common plants, such as flowering dogwood and ragweed, or especially interesting plants, such as native orchids; (3) they illustrate Jane Colden's remarkable powers of observation and description, being easily referable to known species.

All correspond to drawings which bear the same numbers (though not always the same names). The drawings, however, are poorly executed and mostly show only a leaf or stem and leaves; they are of no use for identification of the species (though a few serve to confirm it).

The descriptions are readily understood today even by the layman, providing one first masters the terminology used by English-speaking botanists of the eighteenth century. This is not extensive; it is explained on the sixth page of the manuscript. Here are the terms used, with their modern equivalents.

The *cup*: calyx; the outer covering of a flower. Some species have a *common cup*, which means usually the involucre that surrounds several flowers.

The *flower*: corolla; the petals, just within the calyx.

The *chives*: stamens; the male parts of the flower, bearing the *caps*, anthers, the terminal parts which contain the pollen.

The *pestle*: pistil; consisting of the *seed bud*, ovary, which contains the rudimentary seeds, and the *stile*, style, rising from the ovary and bearing one more *tips*, stigmas, which receive the pollen.

The *seed box* or *seed cover*: capsule; the dry fruit developed from the ovary and containing seeds. Succulent fruits are referred to in modern terms, berries or drup(e)s.

The leaves or *folia* are exactly described without recourse to technicalities; their veins are called *fibers*.

The underground parts are called *root* regardless of their morphology, largely unknown at that time; they may be underground stems. The stem is called the *stalk*. Jane Colden does not distinguish between simple and compound leaves; the latter are described as branches bearing several leaves.

Many of the descriptions have been annotated in another hand than Jane Colden's. The modern names are thus written in; many of these are incorrect.

H. W. RICKETT, Ph. D.

Bibliographer and Senior Curator (of the Library)  
The New York Botanical Garden





*Radix.* The root  
*Caues.* The stalk  
*Folia.* The Leaves  
*Calix.* The general Cup  
*Corola.* The compound flower  
*Stamina.* The Chives  
*Anthera.* The caps  
*Pistillum.* The Pistle or German  
*stigma.* The Tip.  
*Simen.* Seed  
*Flores.* Flowers.



N<sup>o</sup> 22. *Claffis* 2. Dis 1.

*Monarda didyma.*

Red Mind.

Common covering consists of several rows of unequal lance shaped leaves the two first leaves very large set oppositely, the next 4, two of them on each side, much smaller and so on by four of a size gradually less, the innermost still the smallest.

Cup a long Tube, with many streaks, mouth cut into 3 sharp pointed teeth  
Flower one long Pipe shaped leaf, widened towards the top, its brim cut deep into two, the upper lip upright, sharp pointed, with its sides turned in over the Chives, still, the under lip gaping wide from it, cut into 3 scallops the middle one extended out long, with a gash on its top.

Chives two throats inserted into the Pipe of the flower a little below the upper lip, longer than the upper lip, lips joined together. Beside these it has like two very small Chives, without lips, set below the upper lip, even on a row with the others

Pistil Seed Bud roundish in the Bottom of the Flower Pipe, still a Thread longer than the Chives, Tip divided in two.

Seed 4 naked in the Bottom of the cup, they are ovally shaped, somewhat three cornered.

The Stem is hollow, four cornered, and the sides guttered or hollow in Branched out oppositely.

The leaves are ovally shaped, the under end broad, the upper end tapering to a point rough, the edges cut like the teeth of a saw, with a thick Rib along the middle, and many Fibers from it extended to the edges of the leaf, they are set on leaf stalks oppositely, the Branch grow from the same joint with the leaf stalks, & both the Branch & leaves stand in a cross to those above & below them

The flowers grow in a Wheel on the top of the Stem & Branches. The flowers cups stand each upon a short foot stalk, & being many & close together form a flattened Globe. There are but few of the flowers blown at the same time, those in the middle or top blow first, and those towards the edges gradually afterwards, as they do not continue long the first are fallen before the last come out, but the cups remain. Often a new stalk, rises from the middle of the Wheel and carries another Wheel in like manner on its top & sometimes a third in the same manner

Flowers in June in Garden and are of a bright Scarlet colour.  
Grow wild in the Mohawks Country.



## Monarda didyma

### Red Mint

C'ommon covering consists of several rows of unacqual lanced shapd Le  
the two first Leaves very large set oppositely, the next 4, two of them  
each side, much smaller et so on by four of a size gradually lest,  
innermost still the smallest.

*Cup* a Long Tube, with many Streaks, mouth cut into 5 sharp pointed teeth

*Flower* one long Ripe shaped leaf, widen'd towards the top, its brim cut deep  
into two, the upper Lip upright, sharp pointed, with its sides turn'd in ro  
the Chives, Stile, the under Lip gaping wide from it, cut into 3 scallops  
the middle one extended out long, with a gash on its top.

*Chives* two threats inserted into the Pipe of the flower a little below  
the unter Lip, longer than the uper Lip, Caps joined together. Besides  
these it has like two very small Chives, without Caps, set belo  
the uper Lip, even on a row with the others

*Pestle* Seed Bud roundish in the Bottom of the Flower Pipe, Stile a  
Threat longer than the Chives, Tip devided in two.

*Seeds* 4 naked in the Bottom of the Cup, they are ovally shaped, some  
what three cornered.

The Stem is hollow, four corner'd, and the sides gutter'd or hollow  
in Branched out oppositely.

The Leaves are ovally shaped, the under end broad, the upper end, tape  
ring to a point rough, the edges cut like the teeth of a Saw, with a  
thick Rib along the midle, and many Fibers from it extended to the  
edges of the Leaf, they are set on Leaf Stalks oppositely, the Branc  
grow from the same joint with the Leaf Stalks, et both the Branch  
et Leaves stand in a cross to those above et below them

The flowers grow in a Wherl on the top of the Stem et Branches. The  
flowers cup stand each upon a short foot Stalk, et being many  
close together from a flatten'd Globe. There are but few of the flow  
blown at the same time, those in the midle or top blow first, and  
those towards the edges gradually afterwards, as they do not con  
tinue long the first are fallen before the last come out, but the  
Cups remain. Often a new Stalk, rises from the midle of the Wher  
and carries another Wherl in like manner on its top et sometime  
a third in the same manner

Flowers in Juny in Garden and are of a bright Scarlet colour,  
Grow wild in the Mohawks Country.

Nº 17 *Monarda*  
*alba*



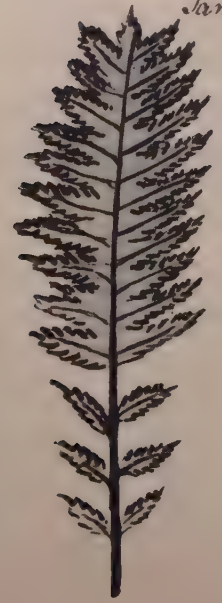
Nº 20 *Malva* *alba*



Nº 22 *Monarda*  
*Red Mind*



Nº 24 *Sanacelum*  
*Sanacelum*



Nº 25 *Ribes* *Grossularia*  
*Grossularia*



No 29

III 3.

*Delphinium*  
Larkspur

Cup none

Flower 5 unequal Leaves, 4 of them ovally shaped, spread out with short Stems, the upper part of the fifth & upper leaf is ovally shaped, upright, the back near the bottom of it is extended far out in a hollow Tube of the shape of a Horn, standing horizontally. Besides these leaves it has a Nectaria growing in the middle of the flower, the top of it is divided into two deep scallops, below these scallops it has like two wings inclosing the Pistle & Chives on the back a horn shaped Tube, like that on the upper flower leaf and placed within it.

Chives from 10 to 15, Awl shaped, broad at bottom, set in a double or triple row, round the seed Bud, caps roundish.

Pistle Seed Bud, long ovally shaped, sharp pointed, a little bent Tip a short thick hook?

Seed Box ovally shaped, sharp pointed, formed of one Valve, opening inwardly ~~just~~ about 10, of an irregular shape, cornered & rough of a black colour.

The Red, Blue, & White Larkspurs are all a like some indeed are unnatural Monstroses, with doubles rows of flower leaves, & more than one Pistle  
flower being



No. 29. XIII. 3.

## Delphinium

### L'arks S'pur

*C'up* none

*Flower* 5 unacqual Leaves, 4 of them ovally shaped, spread out with sh'ort Necks, the upper part of the fifth et upper Leaf is ovally shaped, upright, the back near the bottom of it is extended for out in a hollow Tube of the Shape of a Horn, standing horyzondally. Besides these Leaves it has a Nectaria growing in the midle of the flower, the top of it is devided into two deep scallops, below these scallops it has like two wings inclosing the Pestle et Chives on the back a horn shaped Tube, like that on the uper flower Leaf and placed within it.

*Chives* from 10 to 15, Awl shaped, broad at bottom, set in a double or triple row, round the Seed Bud, Caps roundish.

*Pestle* Seed Bud, long ovally shaped, sharp pointed, a little bent Tip a short thick hook.

Seed Box ovally shaped, sharp pointed, formed of one Valve, opening inwardly seeds about 10, of an irregular shape, cornered et rough of a black colour.

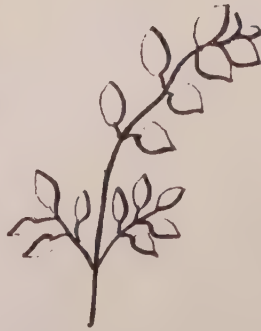
The Red, Blue, et White Larks Spurs are all a like some indeed are unnatural Monstres, with doubles rows of flower Leaves, et more than one Pestle

flower Juny

Nº 26. *Millefolium*  
*officinale*



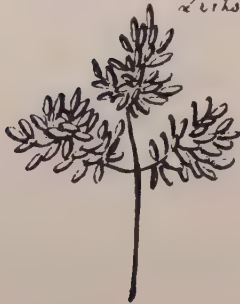
Nº 27. *Urtica*



Nº 28. *Urtica*



Nº 29. *Delphinium*  
*ajacis*



Nº 31. *Scandix* Charvel.



Nº 30. *Liriodendron* Tulip Tree.



N<sup>o</sup> 32.

11. 1.

*Collisonia canadensis* L.

Horse Weed

Cups one leaf, cut half down into 3 unequal, sharp pointed segments

Flower one leaf, Pipe shaped, twice the length of the cup, flattened & widened towards the Brim which is cut into 3 unequal segments, the under one is as broad as two of the others and is extended out long, the end of it is finely cut like a fringe, the other segments are ovally shaped.

Chives two threads inserted into the Flower Pipe just below its Brim, they rise higher above the flower leaf than the whole length of the Flower Pipe together, Caps oval shaped set across.

Perle Seed Buds 3 united together in the bottom of the cup while a Thread of the length of the Chives leaning to one side, Tip divided into two each sharp pointed

Seed always single notwithstanding the 3 Seed Buds it is round, smooth & black, and is naked in the bottom of the cup.

Stalk is square, and is branched out oppositely from the corners of the leaf stalks.

Leaves have long leaf stalks & stand in pairs oppositely they are very large, twice as long as they are broad broadest near the bottom, ending in a narrow sharp point at top, they have a Rib along the middle & fibers going from it towards the edges, the edges are intended The flowers grow on the tops of the stalk's branches they have each a slender foot stalk & stand in pairs oppositely. They are of a pale yellow colour, but the stile is red, they grow in wet ground & flower in August.

flor. July & Aug.



No. 32. II. I.

## *C'ollisonia canadensis* L.

### Horse Weed

*C'upe* one Leaf, cut half down into 5 unacqual, sharp pointed segments

*Flower* one Leaf, Pipe shaped, twice the length of the Cup, flattened et witened towarts the Brim which is cut into 3 unacqual segments, the under one is as broad as two of the others and is extended out long, the end of it is finely cut like a fringe, the other segments are ovally shaped.

*Chives* two threads inserted into the Flower Pipe just below its Brim, they rise higher above the flower Leaf than the whole length of the Flower Pipe together, C'aps oval shaped set accross.

*Pestell* Seed Buds 5 united together in the bottom of the Cup Stile a Thread of the Length of the Chives leaning to one side, Tip devided into two each sharp pointed

*Seed* always single notwithstanding the 5 Seed Buds it is round, smooth & black, and is naked in the bottom of the cup.

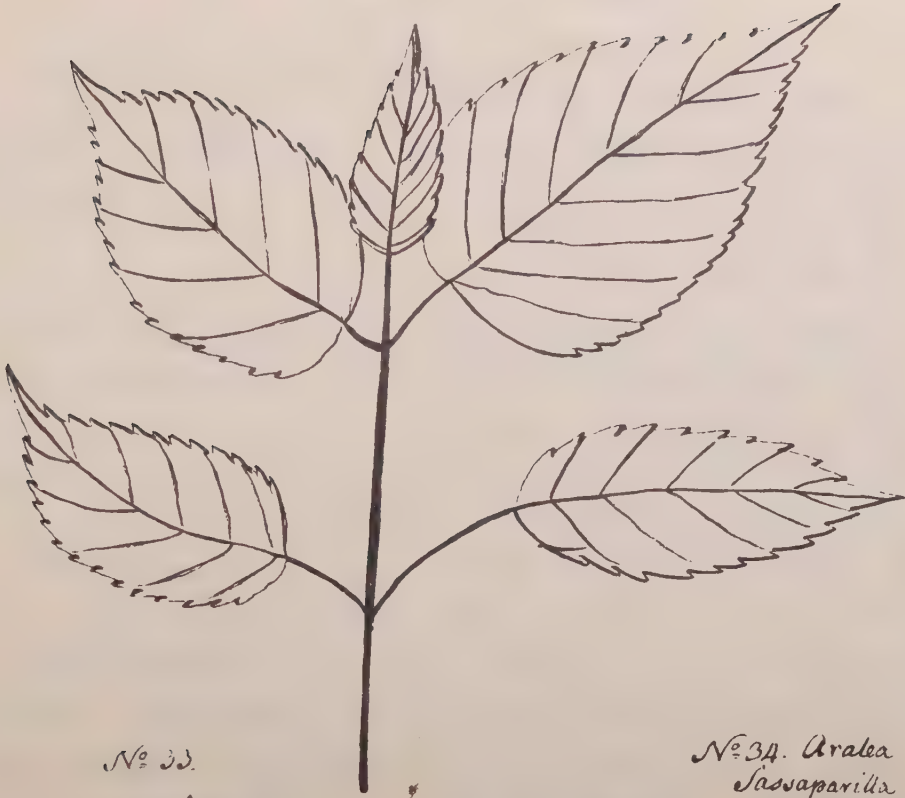
*Stalk* is square, and is branched out oppositely from the corners of the Leaf Stalks.

*Leaves* have long Leafe Stalks & stand in pairs oppositely they are very large, twice as long as they are broad broadest near the bottom, ending in a narrow sharp point at top, they have a Rib along the midle & fibers going from it towards the edges, the edges are intended

The flowers grow on the tops of the Stalk et branches they have each a slinder foot stalk & stand in pairs oppositely. They are of a pale yellow colour, but the Stile is red, they grow in wet ground et flower in August.

Flow. July & Aug.

Nº 32. *Collinsonia*  
*Moose Weed.*



Nº 33.



Nº 34. *Aralea*  
*Sassaparilla*



No 34. ~~Claytonia~~ *Claytonia* A. R. L.  
*Chelis radicularis*  
Saxifragilla

Cups is 5 very small Teeth set on the top of the Seed Bud  
Flower consist of 5 broad lance shaped leaves, set on the top of  
the Seed Bud turned back.

Chives 5 short threads set on the top of the Seed Bud, the length  
of the flower leaves, Caps across

Petals Seed Bud under the flower leaves, Bell shaped, Still 5 dis-  
tinct threads, standing outwards from each other, shorter  
than the Chives, Tips plain

Seed Box is a round smooth black juicy Berry, containing 5 seeds  
flat & half a Moon shaped.

The Root runs a great length along the surface of the  
Ground about thick as a mans little finger, sending up  
Stalks two of two together, at unequal distances from  
each other, from 2 to 6 feet asunder, both these Stalks  
divide into 3 Branches at the top, the one Stalk bearing  
the leaves, the other the flowers without leaves

The leaves grow in 3 or 5 upon each Branch, they are  
ovally shaped, about twice as long as they are broad, sharp  
pointed, smooth, the edges cut like the teeth of a fine  
saw, they have one thick fiber along the middle, & smaller  
ones on each side, branching out from it towards the edges  
The middle leaf has a short foot stalk, the two sides ones  
have none

The flowers grow many together each upon a long slender foot.  
upon the top of the branches; The foot stalk spreading  
out from the top, of the branch, like rays from a center  
form a Globe

The flowers are of a yellowish white colour  
Flower in May

This plant grow both in wet & dry ground, but mostly  
in dry swamps.



No. 34.

## Aralea Aralia nadiculis. L.

### S'assaparilla

*C'up* is 5 very small Teeth set on the top of the Seed Bud

*Flower* consist of 5 broad lanced shap'd Leaves, set on the top of the Seed Bud turn'd back.

*Chives* 5 short threads set on the top of the Seed Bud, the lengt of the flower Leaves, C'aps across

*Pestle* Seed Bud under the flower Leaves, Bell shaped, Stile 5 distinct threads, shanding outwards from each other, shorter than the Chives, Tips plain

*Seed* Box is a round smooth black juky Berry, containing 5 See Seeds flat et half a Moon shaped.

The Root runs a great length along the surface of the Ground about thick as a Mans little finger, sending up Stalks two & two together, at unacqual distances from each other, from 2 to 6 feet azunder, both these Stalks devide into 3 Branches at the top, the one Stalk bearing the Leaves, the other the flowers without Leaves

The Leaves grow in 3 or 5 upon each Branch, they are ovally shaped, about twice as long as they are broad, sharp pointed, smooth, the edges cut like the teeth of a fine Saw, they have one thick fiber along the midle, & smaller ones on each side, branching out from it towards the edges The midle Leaf has a short foot Stalk, the two sides ones have none

The flowers grow many together each upon a long slend foot St upon the top of the branches; The foot Stalk spreading out from the top, of the branch, like rays from a center form a Globe

The flowers are of a yellowish white colour

Flower in May

This plant grow both in wet et dry ground, but mostly in dry swamps.

N<sup>o</sup> 38. Classis. 4. Div. 1.

*Cornus florida*  
Dogwood

Common cover 4, white large, oval shaped leaves, set in the form of a cross, upon the top of a thick foot stalk, they appear at first view like flowers leaves the upper end of the axis is a little drawn

Cup One leaf, Pipe shaped, its Brim cut into 4 small scallops  
Flower four lanceol shaped leaves, set upon the edge of the seed bud  
Chives 4 threads awl shaped, set upon the edge of the seed bud between the Flower leaves alternately, the length of the flowers leaves, Caps are set across.

Perle Seed Bud, below the Flower leaves, filling the bottom of the Cap, that is united to its sides of the cap, like a thread shorter than the Chives, Tip blunt.

Seed The Triad is an ovally shaped, fleshy Drop, with an navel on the top of it, containing one large ovally shaped seed & a shelled nut, with a single Kernel The Drupes are red when  
This is a compounded Flower, composed of many little flowers, set in a cluster on the top of a common foot stalk, the top of the foot stalk is widened out, & serves as a Deck to the little flowers, these little flowers are surrounded by a large common covering composed of 4 broad ovally leaves, they are narrow at bottom & have a spot on the top that is thicker than the rest of the leaf & is drawn together, between this common cover & the little flowers, there is many very little roundish green leaves, set close together in a ring round the Disk

Flowers in May, Flowers leaves are yellow coloured the common cover is white.

## C'ornus florida

### Dogwood

*C'ommon cover* 4, white, large, oval shaped leaves, set in the form of a cross, upon the top of a thick foot Stalk, they appear at first view like flowers Leaves the uper end of the Leaf is a little drawn

*C'up* One Leaf, Pipe shaped, its Brim cut into 4 small scallops

*Flower* four lanced shaped Leaves, set upon the edge of the Seed bu

*Chives* 4 threads awl shaped, set upon the edge of the Seed bud between the Flower Leaves alternately, the length of the flowers Leaves, Caps are set accross.

*Pestle* Seed Bud, below the Flower Leaves, filling the bottom of the Cap, that is united to the sides of the cap, Stile a thread shorter than the Chives, Tip blunt.

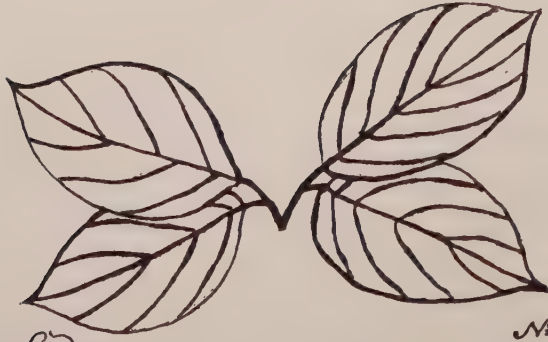
*Seed* The Fruit is an ovally shaped, fleshy Drup, with an navel on the top of it, containing one large ovally shaped hard shell'd nut, with a single Kernal. The Drupes are red when

This is a compounded Flower, composed of many little flowers, set in a Cluster on the top of a common foot Stalk, the toop of the foot Stalk is widened out, et serves as a Deck to the little flowers, these little flowers are sourrounded by a large common covering composed of 4 broad ovally Leaves, they are narrow at bottom & have a spot on the top that is thicker than the rest of the Leaf & is drawn together, between this common cover & the little flowers, there is many very little roundish green Leaves, set close together in a ring round the Dish.

Flowers in May, Flowers Leaves are yellow collour'd the common cover is white.



N<sup>o</sup> 38. *Cornus*  
Dog Wood



N<sup>o</sup> 39. *Carduus*  
Thistle



N<sup>o</sup> 41. *Pedicularis*  
Rattle



N<sup>o</sup> 40. *Lupinus*  
Lupin



N<sup>o</sup> 40. *Cassia* & *Dec* 3. ?XVII.

*Lupinus* " *perennis* L.

Butterfly Flower

Cup is formed of one leaf, cut deep in two parts, & each part gaping wide from the other, the under one is longest & sharp pointed, the upper one slightly cut into two

Flower leaves 4, the Flag is roundish the sides of it turned back, the wings are semicircular adhering together as to the middle with a very small web. The Keel is half moon shape the top of it very sharp pointed, the neck is slender & divided into two of the wings threads

Chives 10, 4 long & 6, short, set upon the mouth of the Sheath that surrounds the seed Bud, they are bent, included with the Keel; The caps of the short Chives are long, standing upright, and those on the long Chives small & roundish

Petals Seed Bud, is cylindrical, a little flattened & bent inward towards the top. It is a thread of the longest Chives, Tip blunt

Seed Box is a short Pod, it has not a division in the middle seeds roundish & flattened

The Root is tuberous, dividing into many Branches

The Stem has branches rising from the bottom, placed alternately

The Leaves grow on the tops of the Branches, and stand round it like the Spokes of a Wheel from the middle on

The leaves are long and narrow, the outer end round & taper towards the stalk.

The flowers grow in spikes on the top of the Stem above the Branches each upon a short foot stalk, placed alternately many in one spike. The flowers are of a bluish Purple colour

Flowers in May & grows on dry Land.

No. 40. Classis 16. Div. 3. Cl XVII.

Lupinus perennis. L.

## Butterfly Flower

*Cup* is form'd of one Leaf, cut deep in two parts, et each part gaping wide from the other, the under one is longest et sharp pointed, the uper one slightly cut into two

*Flower* Leaves 4, the Flag is roundish the sides of it turn'd back the wings ere simicircular adhering together as tow et with a very small wick. The Hull is half Moon shap'd the top of it very sharp pointed, the Neck is slinder et wded into two of the wings threads

*Chives* 10, 4 long et 6, short, set upon the mouth of the Shea that sourrounds the Seed Bud, they are bent, inclosed wth hin the Stile; The cups of the short Chives are long, standing upright, and those on the long Chives small et roundish

*Pestle* Seed Bud, is cylindrical, a little flattened et bont sma lest towards the top. Stile a thread of the longest Chives, Tip blunt

*Seed* Box is a short Pot it has not Division in the middle Seeds roundish et flattened

Thee Root is toberous, deviding into many Praggs

The Stem has branches rising from the bottom placed alternately

The Leaves grow on the tops of the Branches, and stand round it like the Spoaks of a Wheel from the Axell The Leaves are long and narrow, the outer end round & taper towards the Stalk.

The flowers grow in Spickes on the top of the Stem above the Branches each upon a short foot Stalk, placed alternately many in one Spike. The flowers are of a bluish Purple colour

Flowers in May & grows on dry Land.



N<sup>o</sup> 41 Classis 14 Dio. 8.

*Pedicularis tuberosa* Linn.

Rattle

Cup one leaf, bellied, flattened wolly, its mouth not standing containing.

Flower one leaf a Pipe mouth grining, upper lip helmet shaped upright flattened, under lip cut into 3 scallops turned back.

Chives 4 threads two shorter set on the bottom of the flower Pipe, the length of the upper lip, Caps across hid under the upper lip.

Pertle seed bud, below the Flower Leaf, at bottom roundish tapering to a point at top, like a thread, Tip plain, bend placed among the Chives, a little longer, pushing out of the upper lip.

Seed Box long containing two cells at bottom & each 4 or 5 feeds the top of the seed Box is empty, flat & sharp pointed, when the seeds are ripe, it opens on the upper side & is hollow, holding the seeds after they have run out of the cells. Seeds oval sharp.

From one Root rises 2, 3, or 4 Stems single & hairy

The leaves grow alternately on the Stem, long ovally shaped, cut deep, oppositely on each side, like the teeth of a Comb or Feathers top a Quil, the edges of the Teeth scalloped. A thick Rib runs along the back of the leaf, the under end of which is naked, joining upon the Stem, from this middle Rib, goes out small ones through the middle of each Tooth or Feather.

The flowers grow upon the top of the Stem in a short Spike, red thick without foot stalks; at the bottom of each flower cup grows a small leaf, scalloped or jagged on the edge like the Feathers of the leaves on the Stem.

It grows on upland & flowers in May of a yellow colour. This pedicularis is called by the Country People Betong they make Thee of the leaves, & use it for the Fever & Ague & for sickness of the Stomach.

No. 41. C'lassis 14. Div. 2.

## Pedicularis tuberosa Lin.

### Rattle

*C'up* one Leaf, bellyed, flatten'd wolly, its mouth cut slantingly containing.

*Flower* one Leaf a Pipe mouth grining, upper Lip helmit shaped upright flattened, under Lip cut into 3 scallops turn'd back.

*Chives* 4 threads two shorter set on the bottom of the flower Pipe, the tenth of the upper Lip, C'aps accross hid under the upper Lip.

*Pestle* Seed bud, below the Flower Leaf, at bottom roundish—tapering to a point at top, Style a thread, Tip plain, bent placed among the Chives, a little longer, puping out of the upper Lip

*Seed* Box tong containing two cells at bottom & each 4 or 5 seeds the top of the Seed Box is empty, Flat et sharp pointed, when the Seeds are ripe, it opens on the upper side & is hollow, holding the Seeds after they have run out of the cells. Seeds oval sharp'd

From one Root rises 2, 3, or 4 Stems single & hairy The Leaves grow alternately on the Stem, long ovally shaped, cut deep, oppositely on each side, like the teeth of a comb or Feathers top a Quil, the edges of the Teeth scalloped. A thick Rib runs along the back of the Leaf, the under end of which is naked, joining upon the Stem, from this middle Rib, goes out small ones through the middle of each Tooth or Feather

The Flowers grow upon the top of the Stem in a short S'pike, set thick without foot Stalks; at the bottom of each flower Cap grows a small Leaf, scallop'd or jugged on the edge like the Feathers of the Leaves on the Stem

It grows on upland et flowers in May of a yellow colour

This pedicularis is call'd by the Country People Betony they make Thee of the Leaves, et use it for the Fever & Ague et for sickness of the Stomak

N<sup>o</sup> 54.

11

*Convallaria*  
*Salomons Seal*

With flowers in Branches on the top of the stalk

Cup none

Flower 6 very small lance shaped leaves

Chives 6 of the same shape & colour with the flower leaves & but little smaller, Caps are roundish, remarkably large, extended farther out than the flower leaves

Petals Seed Bud roundish, Style none, The Tip is the top of the seed Bud drawn to a point

Fruit is a Berry, spotted red & white before it is ripe, when ripe it is all red & juicy, containing 3 Cells, mark with 3 lines

Seed sometimes there is but a single seed in each Berry, never more than one in each Cell, when single it is globular, when two or three they are cornered

The Stem rises single is ridged and without branches, making an angle at every joint from which the leaves grow, leaves are ovally shaped, sharp pointed & alternately on the Stem without foot stalks? they are very thin & smooth, with 3 small fibers along the back of the leaf, the Edges are entire

The flowers stand on short foot stalks, placed alternately on the top of the stems & from a kind of branched spike on the top of the stem

The leaves are ovally shaped, sharp pointed, with 3 or 5 ribs along the back of them extended, from one point of the leaf to the other

Flowers in May & are of a pale yellow colour.



No. 54.

## C'onvallaria

### S'alomons Seal

*With flowers in Branches on the top of the Stalk*

*C'up* none

*Flower* 6 very small lanced shaped Leaves

*Chives* 6 of the same shape et colour with the Flower Leaves & but little smaler, Caps are roundish, remarquably large, extended farther out than the flower Leaves

*Pestle* Seed Bud roundish, Style none, The Tip is the top of the Seed Bud drawn to a point

*Fruit* is a Berry, spotted red et white before it is ripe, when ripe it is all red & jucy, containing 3 Cells, mark with 3 Lines

*Seed* sometimes there is but a single seed in each Berry, never more than one in each Cell, when single it is globular, when two or three they are corner'd

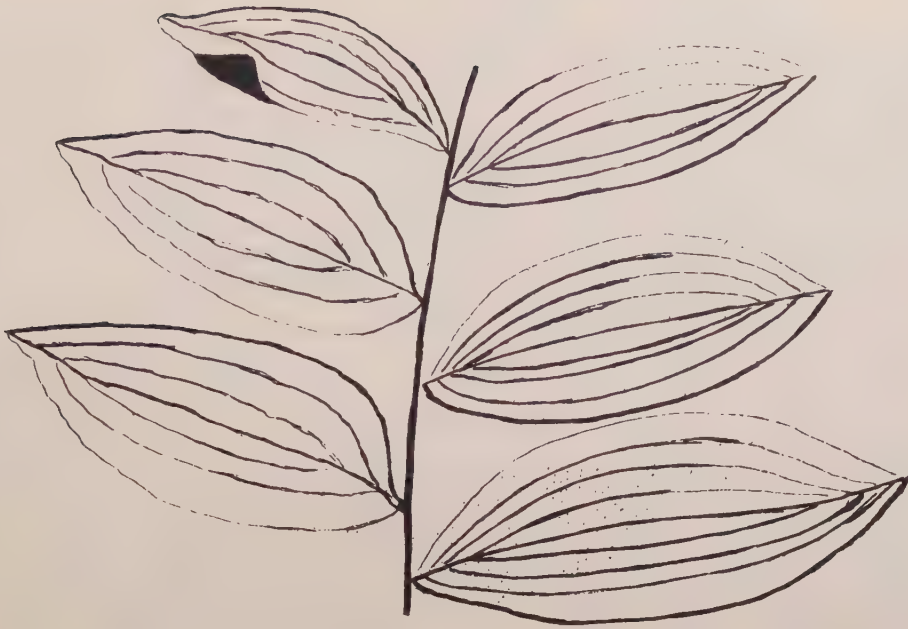
The Stem rises single is ridged and without branches, making an angle at every joint from which the Leaves grow, Leaves are ovally sharped, sharp pointed set alternately on the Stem without foot Stalks, they are very thin & smooth, with 3 small fibers along the back of the Leaf, the Edges are intire

The Flowers stand on short foot Stalks, placed alternately on the top of the Stem & from a kind of branched Spike on the top of the Stem

The Leaves are ovally shaped, sharp pointed, with 3 or 5 Ribs along the back of them extended, from one point of the Leaf to the other

Flowers in May & are of a pale yellow colour.

N<sup>o</sup> 53. *Convallaria*  
*Salomon's Seal*



N<sup>o</sup> 54. *Convallaria*



*Folygala*  
*Sinca, or Snake-root*

Cup is formed of five oval shaped unequal coloured leaves, the uppermost one is twice the bigness of the two lowest, & the two opposite side ones, are four times their bigness, they all cover  
Flower consists of two oval shaped hollow leaves, about the large half of the upper leaf of the cup, & are placed close together on the upper side of the flower, their edges overlapping each other Besides these, there is an appendage placed opposite to the flower leaves, some larger than they, it is of a singular form, difficult to describe, the middle part of it forms a globular figure, slit open on the upper side, enclosing the Chives, it is fixed to the seat of the flower, by a small neck, and the two Flower leaves are fixed one on each edge of this neck. On the top of the globular part is placed a roundish leaf, with the edges turned upwards, and joining upon one edge of this leaf are four erect segments like threads.

Chives are united into one Body half their length, the under part is in the form of one half of a split hollow cylinder, their upper part is divided into eight threads enclosed within the globular part of the appendage. Their Caps are roundish.

Recept The Seed Bed is globular, The Style is a small cylind. The Top Tens. Forwards in the form of a Hook.

Cover of the Seed is a roundish depressed box, a little hollow in at the top, of a greenish colour, formed of two Valves with a partition in the middle placed, cross ways to the Valves, which forms two cells, the Valves open at each edge of the Box.

Seed is single one in each Cell, of a Honey shape, but smaller at one end than the other, & has two Chaff like leaves hang down from the small end along each side of the Seed. It adheres to the upper end of the partition of the Seed Box.



Observ. Linnaeus describes this as being a Papilionaceous Flower, and calls the two largest leaves of the leaf Alae, but as they continue, till the seed is ripe and the two flower leaves, and its appendage fall together. I must beg leave to differ from him. Added to this, the Seed Vessel, differs from all that I have observed of the Papilionaceous kind.

Root is composed of many thick fibers, send out from a large knot

Stalks many grow from one Root, are about a foot high, round smooth & of a dark red colour most commonly have no Branches, but are sometimes branched out, towards the top alternate leaves are numerous & placed alternately without leaf stalks, they are of an ovally sharp pointed figure about 2 inches long & one third part as broad broadest about the middle, sharp pointed at both ends, are soft and smooth, with one thick fiber along the middle & a few very small ones, on each side extended from it towards the edges, the edges are entire

This Plant grow in Dry land, is near a foot high, the flowers are white & grow in a close spike, on the top of the stalks, they flower in May & June. The leaves towards the top of the stalk are much larger than those towards the bottom

B. This Seneca Snake Root is much used by some Physicians in America, principally Long Island, in the Pleurisy, especially when it inclines to a Peripneumony, they give it either in Powder or a Decoction. The usual Dose of the powder is thirty grains

No. 58.

## Polygala

### S'eneca, or Snakeroot

*Cup* is formed of five oval shaped unequal colour'd Leaves, the uppermost one is twice the bigness of the two lowest, & the two opposite side ones, are four times their bigness, they all con

*Flower* consists of two oval shaped hollow Leaves, about the largeness of the upper Leaf of the Cup, & are placed close together on the upper side of the flower, their edges overlapping each other Besides these, there is an appendage placed opposite to the flower Leaves, some larger than they, it is of a singular form, difficult to describe, the middle part of it forms a globular figure, slit open on the upper side, inclosing the Chives, it is fixt to the seat of the flower, by a small Neck, and the two Flower Leaves are fix'd one on each edge of this Neck. On the top of the globular part is plac'd a roundish Leaf, with the edges turned upwards, and joining upon one edge of this Leaf rise four erect segments like threads

*Chives* are united into one Body half their length, the under part is in the form of one half of a split hollow cylinder, their upper part is divided into eight threads. inclosed within the globular part of the appendage. Their Caps are roundish.

*Pestell* The Seed Bud is globular, The Style is a small cylinder The Tip bends downwards in the form of a Hook

*Cover* of the Seed is a roundish depressed box, a little hollow in at the top, of a greenish colour, form'd of two Valves with a partition in the middle placed cross ways to the Valves, which forms two Cells, the Valves open at each edge of the Box

*Seed* is single one in each Cell, of a Kidney shape, but smaller on one end than the other, & has two Chaff like Leaves hanging down from the small end along each side of the Seed It adheres to the upper end of the partition of the Seed Box

*Observat.* Linnaeus describes this as being a Papilionaceous Flower, and calls the two largest Leaves of the Cup *Alae*, but as they continue, till the Seed is ripe and the two flower Leaves, and its appendage fol together. I must beg Leave to differ from him Added to this, the Seed Vessell, differs from all that I have observed of the Papilionaceous Kind.

*Root* is composed of many thick Fibers, send out from a large Knot

*Stalks* many grow from one Root, are about a foot high, round smooth & of a dark red colour most commonly have no Branches, but are sometimes branched out, towards the top alternately

*Leaves* are numerous & placed alternately without Leaf Stalks, they are of an ovally sharp pointed figure about 2 inches long & one third part as broad broadest about the middle, sharp pointed at both ends, are soft and smooth, with one thick fiber along the middle & a few very small ones, on each side extended from it towards the edges, the edges are intire

This Plant grow in dry land, is near a foot high, the flowers are white & grow in a close Spike, on the top of the Stalks, they Flower in May et June The Leaves towards the top of the Stalk are much larger than those towards the bottom

NB. This S'eneca Snake Root is much used by some Physicians in America, principally Long Island, in the Pleurisy, especially when it inclines to a Peripneumony, they give it either in Powder or a Decoction. The usual Dose of the powder is thirty grains



N<sup>o</sup> 55. *Vaccinium*, Bear Berry



N<sup>o</sup> 56 *Opulus*



N<sup>o</sup> 58. *Polygala*  
*Senneca Snake Root.*



N<sup>o</sup> 57. *Triosteospermum*



N<sup>o</sup> 62 *Cypripedium, Calceolus Tournefl.*  
*Lady's Slipper*

Chives growing from the Pestle  
 (are none except the first four Flower Leaves be called so  
Flower 6 Leaves, the first 4 set in a cross, on the top of the Seed  
 bud two of them very long sharp pointed & twisted, the other  
 two broader set oppositely, the 5 is a large leaf, within the  
 first 4 the shape of an Indian Shoe, from this it has the  
 name of Slipper, the end of the Leaf near the Stem, or rather  
 Seed bud, is covered with a hairy down on the inside, the 6  
 is a small three cornered leaf, with a small neck, set upon  
 the Style, and covering it, bends over into the mouth of the  
 Shoe

Stems two, short, thick, sharp pointed Bodies, the Caps are set  
 on the underside of them, about the middle, are of a Glo-  
 bular Form.

Pestle Seed Bud under the Flower, long, slightly furrowed, appears  
 like a foot stalk to the Flower, but thicker than the  
 Stem. very thick longer than the Chives, but towards  
 the mouth of the Shoe, Tip large, triangular shape, the  
 corners blunt.

Seed Box is of a long sharp pointed oval shape, composed  
 of 3 Valves, besides which is has three Ribs extended  
 along the seams of the Valves, but separate from them  
 the Box contains one Cell.

Seeds very numerous & exceeding small like Dust, there  
 are three receptacles, one along the middle of each Valve  
 The Stem rises single without branches, is rough &  
 carries one flower on its top

Leaves are oval shaped, sharp pointed, under end surrounding  
 the Stem, then spreads flat, having many Ribs, or  
 creases on the back, extending from one point to the  
 other, set alternately on the Stem, upright and fa-  
 cing one another

Flowers in May, yellow coloured

No. 62.

## C'yripedium, C'alceolus Tourneft

### Lady's S'lipper

*Chives growing from the Pestle*

*Cups* none except the first four Flower Leaves be call'd so

*Flower* 6 Leaves, the first 4 set in a cross, on the top of the Seed bud two of them very long sharp pointed & twisted, the other two broader set oppositely, the 5 is a large Leaf, within the first 4 the Shape of an Indian Shoe, from this it has the name of slipper, the end of the Leaf next the Stem, or rather Seed bud, is cover'd with a hairy down on the inside, the 6 is a small three corner'd Leaf, with a small neck, set upon the Style, and covering it, bends over into the mouth of the Shoe

*Chives* two, short, thick, sharp pointed body's, the Caps are set on the underside of them, about the middle, are of a Globular Form.

*Pestle* Seed Bud under the Flower, long, slightly furrow'd, appears like a foot Stalk to the Flower, but thicker than the Stem. Style thick longer than the Chives, but towards the mouth of the Shoe, Tip large, triangular shape, the corners blunt.

*Seed Box* is of a long sharp pointed ovally shape, composed of 3 Valves, besides which is has three Ribs extented along the seams of the Valves, but separate from them the Box contains one Cell.

*Seeds* very numerous & exceeding small like Dust, there are three recepticles, one along the middle of each Valve The Stem rises single without branches, is rough & carries one flower on its top

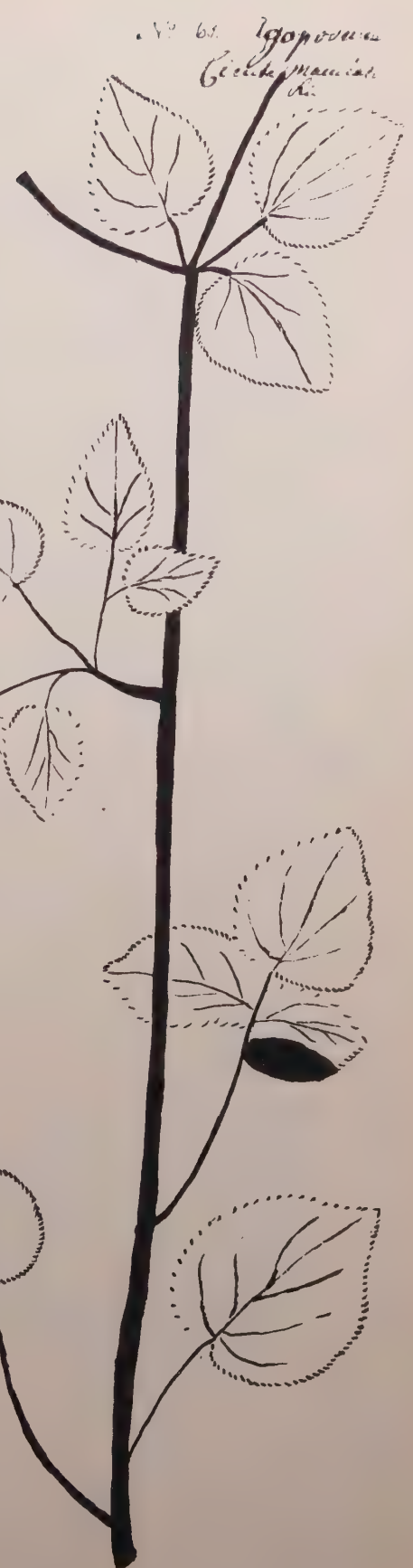
*Leaves* are ovally shaped, sharp pointed, under end surrounding the Stem, then spreads flat, having many Ribs, or creases on the back, extending from one point to the other, set alternately on the Stem, upright and facing one another

Flowers in May, yellow colour'd.





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Cup one leaf pipe shaped; & cut half down into a bowl shaped Segment  
Flower one leaf a three cornered Pipe, mouth cut into two, not unlike  
 a Fishes mouth, the upper lip is Helmet shaped & hairy on the  
 inside, the top of the under lip, is cut into 3 small teeth

Chives 4 two of them a little shorter, than the other two, they are  
 threads inserted into the flower Pipe, caps joined, tied in the top  
 of the upper lip

Roll Lead Bud ovally shaped, flattened sharp pointed, like a thread  
 longer than the Chives, tip turned round, placed with the Chives  
 in the upper flower lip

Box longer than broad, straight on one side rounded on the  
 other, flattened, compressed & sharp pointed, composed of two  
 Valves & containing one leaf

Leads one 4 in number oval shaped, with white Tips on one end  
 they hang by short threads from the bottom of the box,  
 two on each Valve

Root is small tuberous & sending out a few fibers

The Stem is of a redish colour, square at the joints of the  
 branches & opposite

The Leaves have short leaf stalks & opposite on the  
 Stem & Branches, the under leaves are lance shaped, smooth  
 edges entire, the leaves near the flowers, have one or two  
 sharp pointed teeth, & opposite on the sides of the leaf  
 near the bottom.

The flowers grow on the tops of the Branches, on short  
 joint stalks in pairs opposite, between the Branches, &  
 the leaf stalks.

This Plant sometimes grow near a foot high, it grows  
 both in moist & dry ground

It flowers in June & July, they are white coloured, only  
 the inside of the upper lip is yellow.

No. 68.

## Melampyrum

*Cup* one Leaf pipe shaped, & cut half down into 4 Awl shaped Segments

*Flower* one Leaf a three corner'd Pipe, mouth cut into two, not unlike a Fishes mouth, the uper Lip is Helmet shaped & hairy on the inside, the top of the under Lip, is cut into 3 small teeth

*Chives* 4 two of them a little shorter, than the other two, they are threads inserted into the flower Pipe, Caps join'd, hid in the top of the uper Lip

*Pestle* Seed Bud ovally shaped, flaten'd sharp pointed, Style a thread longer than the Chives, Tip turn'd round, placed with the Chive in the uper flower Lip

*Seed* Box longer than broad, straight on one side rounded on the other, flattend, compress'd & sharp pointed, composed of two Valves & containing one Cell

*Seeds* are 4 in number oval shaped, with white Tips on one end they hang by shorts threads from the bottom of the box, two on each Valve

*Root* is small tuberous & sending out a few fibers  
The Stem is of a redish colour, square at the joints & the branches set oppositely

The Leaves have short Leaf Stalks set oppositely on the Stem & Branches, the under Leaves are lanced shaped, smooth edges intire, the Leaves next the flowers, have one or two sharp pointed teeth, set oppositely on the sides of the Leaf near the bottom.

The flowers grow on the tops of the Branches, on short foot Stalks in pairs oppositely, between the Branches, & the Leaf Stalks.

This Plant sometimes grow near a foot high, it grows both in moist & dry ground

It flowers in June & July, they are white colour'd, only the inside of the upper Lip is yellow.



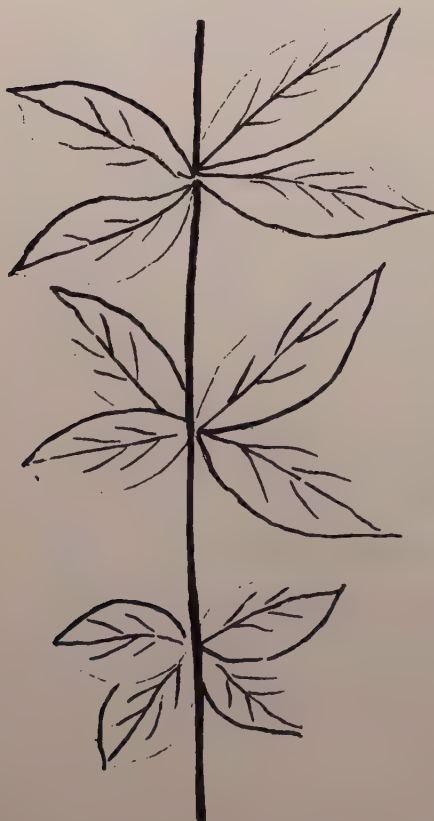
Nº 68.



Nº 69 *Lilium*  
*Yellow Lilly*



Nº 70 *Lysimachia*



N<sup>o</sup> 69

*Lilium philadelphicum* L.

Will.

Yellow Lilly with the flowers standing upright

Cup note

Flower Bell shaped with a narrow bottom, 8 leaves, with long hollow ribs, the upper part of the leaf ovally shaped, three of them have a thick rib along the back, & 3 alternately with the other 3 that have none, and those that have no ribs, are sharper pointed than the others, The inside of the leaves are of a dark Orange colour, but towards the necks paler, with very dark red spots, on the under half of the leaf Chives 6 thick threads shorter than the flower leaf, sharp pointed, Caps the shape of a Conus with the bottom upwards hanging on the sharp point of the Chives.

Pistil Seed bud a Cylinder with 8 furrows, Style three cornered thickest at top of the length of the Chives, Tip thick, & like wise 3 cornered; The Chives & style, are dark Orange colour, the Caps & Tip dark brown

Cover of the Seed is oval shaped, with 3 furrows all along it, & 3 raised lines, alternately with the furrows, it is composed of 3 Valves, & contains 3 Cells

Seeds are numerous, roundish & very flat, with a thin membranaceous Boarder all round them; the Boarder is pointed at one end. The Seed of the Seed is two Lines along each side, & the center where the Divisions of the Cells meet.

The root is composed, of many small Bulbs united together

The Stem is either single without Branches, or divided into several branches.

The leaves are four times as long as they are broad, broadest in the middle & sharp pointed, Edges entire, with 3 lines or ribs, along the back of each, 5, 6, or 7, grow together, & set like a Wheel round the Stem, without foot stalks, and several of these Wheels one above another

The flower grows single, one upon the top of the stem, upright, or where they are branched, one upon the top of every Branch.

Grows upon Upland & flowers in June,

No. 69.

## *L'ilium philadelphicum* L.

Yellow Lilly *with the flowers standing upright*

*C'up* none

*Flower* Bell shaped with a narrow bottom, 6 Leaves, with long hollow necks, the upper part of the Leaf ovally shaped, three of them have a thick Rib along the back, set alternately with the other three that have none, and those that have no Ribs, are sharper pointed than the others; The inside of the Leaves are of a darck Orange colour, but towards the Necks paler, with very darck red Spots, on the under halff of the Leaf

*Chives* 6 thick threads shorter than the flower Leaf, sharper pointed, Caps the Shape of a Conew with the bottom upwards hanging on the sharp point of the Chives.

*Pestle* Seed bud a Cylinder with 6 furrows, Style three corner'd thickest at top of the length of the Chives, Tip thick, & like wise 3 corner'd; The Chives & Style, are darck Orange colour, the Caps & Tip darck broun

*Cover* of the Seed is oval shaped, with 3 furrows allong it, & 3 laised Lines, alternately with the furrows, it is composed of 3 Valves, & contains 3 Cells

*Seeds* are numerous, roundish & very flat, with a thin membranaceous Boarder all round them, the Boarder is pointed at one end. The Seat of the Seed is two Lines along each Cell, at the Center where the Divisions of the Cells meet.

The root is composed, of many small Bulbs united together

The Stem is either single without Branches, or devided into several branches.

The Leaves are four times as long as they are broad, broadest in the middle et sharp pointed, edges intire, with 3 Lines or Ribs, along the back of each, 5, 6, or 7 grow together, set like a Wheel round the Stem, without foot Stalks, and several of these Wheels one above another

The Flower grows single, one upon the top of the Stem, upright, or where they are branched, one upon the top of every Branch.

Grows upon Upland & flowers in June.



N<sup>o</sup> 70

*Lysimachia multifolia.*

Leaf one leaf, divided into 5 lance shaped segments, spread out in  
turning.

Flower 5 ovally shaped leaves, upper end sharp pointed, joined  
(or rather placed upon a hoop, that surrounds the bottom of  
the seed bud.

Chives 5, joined together at bottom, shorter than the flower leaf,  
erect, caps roundish.

Petiole seed bud globular, style a thread, the length of the chive,  
top plain.

Seed Box globular, it is composed of 4 or 5 valves & contains  
one bit, Receptical is globular & deeply pitted.

Seeds roundish, from 1 to 6, a little flattened on one side, of dif-  
ferent shape according to their number.

The stem is hairy & grows single without branches

The leaves are ovally shaped, sharp pointed at both ends  
edges entire, with very short foot stalks, set 4 together  
round the stem, in the form of a cross, every 4 at a regular  
distance

The flowers grow single upon long slender foot stalks, set  
above the leaf foot stalk close to it and by along  
the side of the leaves one upon every leaf

Flowers in June, yellow followed.

The principal Difference between the two *Lysimachias* N<sup>o</sup> 70  
78, and 188 is this. N<sup>o</sup> 188 has no sheath, but the Chives  
are placed on the bottom of the flower leaf, & the flower  
is of one leaf, deeply divided, the segments large & brown-  
red. This flower falls with the Chives, continuing on it  
before it withers, whereas the flowers of N<sup>o</sup> 70, & 78 wi-  
ther on the stalk.

No. 70.

## *Lysimachia quadrifolia*

*Cup* one Leaf, devided into 5 lanced shaped Segments, spread out continuing.

*Flower* 5 ovally shaped Leaves, uper end sharp pointed, spread or rathe placed upon a Hoop, that sourrounds the bottom of the Seed Bud.

*Chives* 5, join'd together at bottom, shorter than the flower Leaf erect, caps roundish.

*Pestle* Seed Bud globular, Style a thread, the Lenght of the Chives Tip plain.

*Seed* Box globular, it is composed of 4 or 5 Valves et contains one Cell, Receptical is globular & deeply pitted.

*Seeds* roundish, from 2 to 6, a little flattened on one side, of different Shape according to their number.

The Stem is hairy et grow single without branches

The Leaves are ovally shaped, sharp pointed at both ends edges intire, with very short foot Stalks, set 4 together round the Stem, in the form of a Cross, every 4 at a regular distance

The flowers grow single upon long slender foot Stalks, set above the Leaf foot Stalk close to it and by along the middle of the Leaves one upon every Leaf

Flowers in June, yellow collourd.

The principal Difference between the two *Lysimachias* No. 70 78, and 188 is this. No. 188 has no Sheath, but the C'hives are placed on the bottom of the flower Leaf, & the flowe is of one Leaf, deeply devided, the Segments large & roundish. This flower falls with the Chives, continuing on before it withers, whereas the flowers of No. 70, & 78 wither on the Stalk.

No 71.

Andromeda, *Palma angustifolia*  
Laurel the small kind.

1.1.

Cup cut deep into 5 small lance shaped leaves, continuing  
Flower one leaf a short Pipe, from large end into 5 shallow  
scallops, pleated in 10 folds, in each of these pleats, there  
is a pit or hollow on the inside of the leaf, which makes  
a lump on the out side, the flower is of a pale red  
colour, and on the inside, just below the pits, it has a  
circle round it of a dark red colour, in the form of the leaves  
consisting of 10 points.

Chives 10 threads set on the flower bed, Caps roundish  
lying in the Pipe of the flower leaf.

Bottle Seed Pod globular, Style a thread, longer than the Chive.  
small at bottom, grows gradually thicker towards the  
top, Tip blunt.

The box roundish a little flattened composed of 5 Valves  
each containing one cell & many very small longish seeds.  
This grows upon a small shrub, branched out irregularly.  
The leaves are ovally shaped, sharp pointed, smooth  
edges entire, with short foot stalks, set alternately on  
the branches & close together.

The flowers grow in Clusters, round the middle of the branches  
each having a long foot stalk, 4 or 5 set together  
upon general foot stalks, or short branches.

*Palma latifolia*  
The flowers of this large laurel are every way  
the same with this, only of a paler colour & larger  
and grow on the top of the branches in Clusters  
like an Umbrella.

The leaves likewise grow in the same manner  
with the small kind, but are much larger, & of  
a broader shape and very stiff.

Flowers in June



No. 71.

## *Kalmia Augustifolia*

### Laurell the small Kind.

*C'up* cut deep into 5 small lancet shaped Leaves, continuing

*Flower* one Leaf a short Pipe, Brim large cut into 9 shallow scallops, pleated in 10 folds, in each of these pleats, there is a pit or hollow on the inside of the Leaf, which makes a lump on the out Side, the flower is of a pale red colour, and on the inside, just below the pits, it has a Circle round it of a dark red colour, in the form of Weaves consisting of 10 points.

*Chives* 10 threads set on the flower bed, Caps roundish lying in the Pits of the flower Leaf.

*Pestle* Seed Bud globular, Style a thread, longer than the Chives small at bottom, grows gradually thicker towards the top, Tip blunt.

*Sed* box roundish a little flatten'd composed of 5 Valves each containing one Cell & many very small longish Seeds This grows upon a small Shrub, bran'ched out irregularly. The Leaves are ovally shaped, sharp pointet, smooth edges intire, whit short foot Stalks, set alternately on the Branches & close together

The flowers grow in Clusters, round the middle of the branches each having a long foot Stalk, & 4 or 5 set together upon general foot Stalks, or short branches.

#### *Kalmia Latifolia*

The flowers of the large Laurell are every way the same with this, only of a paler colour & larger and grow on the tops of the branches in Clusters like an Umbella.

The leaves likewise grow in the same manner with the small Kind, but are much larger, & of a broader shape, and very stiff

Flowers in June.

Nº 71. *Hydrandra* Nº 72. *Symedonum*  
*2. var. malle h2*  
*Kalmia argentea*

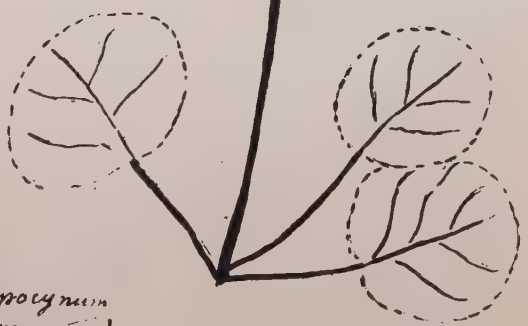


Nº 74. *Chenopodium*

Nº 75. *Diervilla*



Nº 76. *Syringa*



Nº 73. *Apocynum*  
*Dogs* *lane.*



No. 72. *Limodorum taberosum*. L.

Cup none, unless a single sharp pointed hollow leaf, that is plain at the bottom of the Seed bud & half surrounding it, be called so. Flower of 5 unequal ovally sharp pointed leaves, the 3 downwards ones are broader, the 2 upwards is in the place of a 3 leaf, it, and the 2 narrowest flower leaves are placed alternately with the broadest & is about the same length but of a very different figure. It has a long slender stalk which widens out a little at bottom, and at top is broad & somewhat be shaped & bearded, being covered with numerous fine long hair. A very peculiar thing in this appendage is its springing back: it forwards with the last touch of the finger, taking a sharp bend near the bottom & when the finger is away recovering its natural position.

Stives consists of two Caps / Antherae only, and are placed in a fine hollow Cap or cover, that is fastened as it by a hinge upon the top of the Style, this cover has 2 ribs, in which the Antherae lie and are entirely hid so as not to be seen, till the cover is lifted up.

Perle the Seed bud is below the seat of the flower, supporting it like a foot stalk, is cylindrical, with 6 ridges along it.

The style is near as long as the flower leaves, placed oppositely, to the Appendage, & bent flat on the upper side & rounded on the under, with a half round wing on each side near the top, the top is split open in the form of two gaping lips over these two lips, the Antherae with their covers are seated, being fixed as before observed in such manner, to one of the lips, as to move when lifted up & down as the lid of a chest does on its hinges.

Seed Box is of a long ovally sharp pointed figure, composed of 3 Valves, besides which it has 3 narrow ribs, extended along the seams of the Valves one upon each separating from them, the Box contains 3 Cells.

Seeds are very numerous & small

Reaptial is extended along the middle of each Valve

Root is formed of two roundish Buds united together

Stalk is single & without Branches, smooth & about a foot high



Leaf is single, rising from the root, & surrounding the bottom of the stalk like a sheath, the upper part is shaped like a two edged sword, it is about two thirds as long as the stalk, with many veins along it.

The flowers have no root stalk, but the seed bud & are placed irregularly on the top of the stalk, forming a long beautiful spike.

The flower leaves appendage, & the style, are all of a lively purple colour.

This plant grow in poor wet ground  
Flowers in June & July

No. 72.

## L'imodorum Taberosum L.

*Cup* none, unless a single sharp pointed hollow Leaf, that is placed at the bottom of the Seed bud & half surrounding it, be called so

*Flower* of 5 unequal ovally sharp pointed Leaves, the 3 outwards one are broader Appendage is in the place of a 6 Leaf, it and the 2 narrowest flower Leaves are placed alternately with the broadest & is about the same length but of a very different figure. It has a long slender Neck which widens out a little at bottom, and at top is broad & somewhat heart shaped & bearded, being covered with numerous fine long hairs. A very peculiar thing in this appendage is its springing back & forwards with the least touch of the finger, taking a sharp bend near the bottom & when the finger is away recovering its natural position.

*Chives* consists of two Caps/Antherae/ only, and are placed in a fine hollow Cap or cover, that is fastened as if by a Hinge upon the top of the Style, this Cover has 2 Cells, in which the Antherae lie and are entirely hid so as not to be seen, till the Cover is lifted up.

*Pestle* the Seed bud is below the Seat of the flower, supporting it like a foot Stalk, is cylindrical, with 6 ridges along it. The Style is near as long as the Flower Leaves, placed oppositely, to the Appendage, & bent flat on the upper side & rounded on the under, with a half round wing on each side near the top, the top is split open in the form of two gaping Lips over these two Lips, the Antherae with their Cover are seated, being fixed as before observed in such manner, to one of the Lips, as to move when lifted up & down as the Lid of a Chest does on its hinges.

*Seed Box* is of a long ovally sharp pointed figure, composed of 3 Valves, besides which it has 3 narrow Ribs, extended along the Seams of the Valves one upon each separating from them, the Box contains 3 Cells.

*Seeds* are very numerous & small

*Receptical* is extended along the middle of each Valve

*Root* is formed of two roundish Bubles united together

*Stalk* Is single & without Branches, smooth & about a foot high

Leaf is single, rising from the Root, et sourrounding the bottom of the Stalk like a Sheath, the upper part is shaped like a two edges Sword, et is about two thirds as long as the Stalk, with many Lines along it.

The Flowers have no Foot Stalk, but the Seed Bud et are placed irregularly on the top of the Stalk, forming a long Beautifull Spike.

The flower Leaves Appendage, & the Style, are all of a lively Purple Colour.

This Plant grow in poor wet Ground

Flowers in June & July



N<sup>o</sup> 83.

*Sambucus canad.*  
Elder, or Pipe Tree

V. 3.

Cup one leaf, cut into 5 sharp scallops, colored.  
Flower one leaf, the edge cut into 5 round scallops, hollow in the under side.

Chives, 5 threads, shorter than the flower leaf, set upon it, 2 or 3 roundish

Pottle seed bud roundish, styl. a knob.

The fruit is a small round black juicy Berry, containing 3 or 4 seeds, of an oval shape.

This grows upon a large shrub, branched out oppositely, sometimes with 4 branches from one joint, two on each side, at other times one on each side oppositely, the branches have a hollow like a gutter along their upper side.

The leaves are oval shaped, the under end sharp pointed, the edges indented, with short leaf stalks, set oppositely on the branches with an odd one.

The flowers grow in clusters, on the top of the branches, when first divided into 4 or 5 branches, & each of these subdivided over & over into many more branches, the flowers are set each upon a small subdivision, of the branches many of them growing close together, from a broad flat surface, like flowers that grow in an Umbel

Flowers in June, White coloured.

No. 83.

## Sambucus Canadens.

### Elder, or Pipe Tree

*Cup* one Leaf, Cut into 5 sharp scallops, colour'd.

*Flower* one Leaf, the edge cut into 5 round scallops, hollow'd on the under side.

*Chives*, 5 threads, shorter than the flower Leaf, set upon it, Caps roundish

*Pestle* Seed Bud roundish, Style a Knob.

The fruit is a small round black juky Berry, containing 3 or 4 *Seeds*, of an ovally shape.

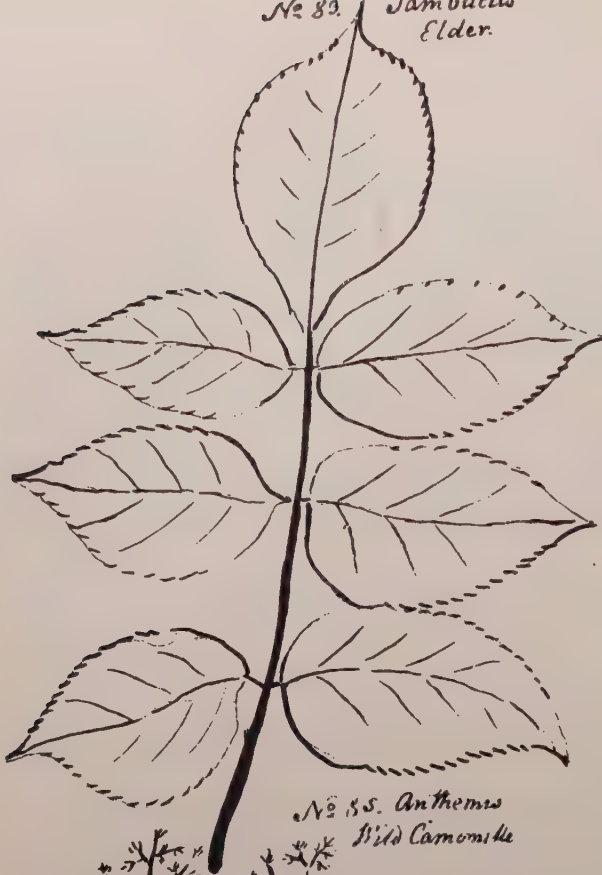
This grow upon a large shrub, branched out oppositely, sometim with 4 branches from one joint, two on each side, at other times one on each side oppositely, the branches have a hollow like a gutter along their uper side.

The Leaves are ovally shaped, the under end sharp pointed, the edges indented, with short Leaf Stalks, set oppositely on the Branches with an odd one.

The flowers grow in clusters, on the top of the branches, wit are first devided into 4 or 5 Branches, & each of these subdivided over & over into many more Branches, the Flowe are set each upon a small subdivision, of the Branches many of them growing close together, from a broad flat surface, like flowers that grow in an Umbella

Flowers in June, White colour'd.

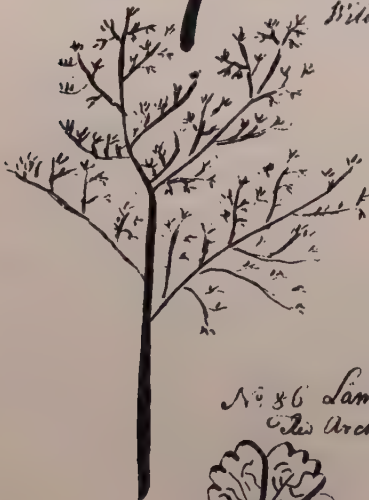
Nº 83. *Sambucus*  
Elder.



Nº 84. *Oxalis*  
Wood Sorrell



Nº 85. *Anthemis*  
Wild Camomille



Nº 86. *Lamium*  
The Archangel



Nº 87. *Lophostoma*  
Indigo





No 87. L.I. *Sophora* <sup>*fruticosa*</sup> ~~*fruticosa*~~ *Protolaria* (Hort. Acad. ang.) Batsch.  
*Soph. fruticosa*. Wild Indigo, Butterfly flower, the Chives separate  
 Caps one leaf, Bell shaped, mouth upright, cut into 4 sharp scallops  
 the upper one largest, continuing.  
 Flag roundish with a short Neck, the upper ear heart shaped  
 the sides turned back?  
 Wings two leaves, set oppositely, on each side, the flower long  
 oval shaped, with a long narrow Neck?  
 Hull oval shaped, flattened, the edges even, the neck divided  
 into two  
 Chives 10, separate flattened threads, bent at their tops, unequal  
 about the length of the Hull, envelope with their  
 Caps roundish  
 Podde Lead Pod long snail at bottom, bellied in the middle,  
 & flattened, Style bent shaped, Tip sharp, enclosed in the  
 with the Chives, a little longer.  
 Seed Box is a short oval shaped Pod, sharp pointed at top, it is  
 composed of two Valves, & contains one Ale, the Pod stands  
 upon a long Foot stalk, that rises out of the bottom of the  
 Seeds about 6 of a broad Kidney shape.  
 The Stem is stiff & smooth, branched out alternately, into  
 many Branches.  
 The leaves are of the shape of an Egg, the under end sharp  
 pointed, they stand 3 together, upon a very short foot stalk  
 set alternately on the Branches.  
 The flowers grow in spikes, upon the tops of the Branches  
 hanging one above another, each by a short foot stalk.  
 Flower in July, yellow coloured.

No. 87.

S'ophora, tinctoria Orotolaria.

Hort: Acad. Lngd. Batan

Soph. tinctoria. Wild Indigo, Butterfly flower,  
the Chives separate

*Cup* one Leaf, Bell shaped, mouth upright, cut into 4 sharp scallop  
the uper one largest, continuing.

*Flag* roundish with a short Neck, the upper end heart shap  
the sides turn'd back.

*Wings* two Leaves, set oppositely, on each side, the Flower lon  
ovaly shaped, with a long narrow Neck.

*Hull* ovaly shaped, flattened, the edges even, the neck dev  
ded into two

*Chives* 10, separate flatten'd threads, bent at their tops, un  
equal about the Length of the Hull, inclosed within itt,  
Caps roundish

*Pestle* Seed Bud long small at bottom, bellied in the middle,  
of flatten'd, Style Awl shaped, Tip sharp, inclosed in the N  
with the Chives, a little longer.

*Seed Box* is a short ovaly shaped Pod, sharp pointed at top, it i  
composed of two Valves, & contains one Cell, the Pod stands  
upon a long Foot Stalk, that rises out of the bottom of the

*Seeds* about 6 of a broad Kidney shape.

The Stem is stiff & smooth, branched out alternately, into  
many Branches.

The Leaves are of the shape of the Egg, the under end sharp  
pointed, they stands 3 together, upon a very short foot Stalk  
set alternately on the Branches.

The flowers grow in Spickes, upon the tops of the Branch  
hanging one above another, each by a short foot Stalk.

Flower in July, yellow colour'd.

N<sup>o</sup> 91.

*Asclepias tuberosa*. L.  
Silk Grass

Cup 5 small lanceol shaped leaves, turned back.

Flower one ray, cut into 5 long oval shaped segments, much larger than the cup leaves, turned back over them.

Neckaria 5 other leaves, standing upright, shaped like a Cats Ear, with a sharp pointed spine, rising up through the hollow of them bending over the middle of the flower.

Leaves 5, set round, united to a stumped body, that covers the Bottle, they have a furrow along the middle, and Wings on each side of an triangular shape, these Wings standing outwards from the stumped body, and each one, joining close to the wings of the three next it, & forms 5 figures, the Rays are a smooth thin scale.

Small Seed Pods two oval shaped, Styles two short threads, tips plain, they are covered by the stumped body, the top of which is hollowed, & it has 5 furrows on the sides.

Cover of the seed are two very long Pods, small at both ends, or belled, joined at one Valve, opening length ways, & containing one seed. Seeds are numerous, oval shaped, & very wide flat thin, borders round then crowned with very long white Down, set close on the top of the seed.

Seat of the seed is firm, it is a long membranaceous Pillar, small at both ends, with 10 thin narrow wings, placed along it, and standing outwards from the Center. The seed is fixed to the Pillar by the top of the Down, the Down ties along it between the wings, and the seeds hang one above another in the order of Tiles.

Several Stems rise from one Root, they are rough & hairy, & are divided at top, into 3 Branches, of these subdivided into 2 or 3 again.

The leaves are set very thick & alternately on the Stem of Branches with very short leaf stalks, they are of a long oval shape a little square at bottom, and bluntly sharpened at top, very rough, with a thick Rib along the middle, their edges are bordered.



The flowers grow in clusters, each upon a long foot stalk, upon the tops of the branches, forming a regular Umbels, with a small short shaped leaf, at the bottom of every foot stalk?

The flowers are of a bright orange colour

Flower in July

N. The Root of this *Asclepias* taken in powder, is an excellent cure for the Colick<sup>d</sup> about half a Spoonfull at a time

This cure was learned from a Canada Indian, & is called a New England Canada Root. The Excellence of this Root for the Colick is confirmed by D<sup>r</sup> Porter of New England, and D<sup>r</sup> Brooke of Maryland like wise confirms this.

One ounce of the Root, chipped into small pieces, to which put a pint of a half of boiling water, & let it stew for about one hour, of this Decoction drineth<sup>d</sup> half a Tea cup full, every hour or two, and you bin certainly perfectly cured from the bloody Flux, and better is when you boil the Root in clear than in Water. This cure was learned from the Indians.

One another *Asclepias* growing upon a Stem with only 8 leaves

The flowers agrees every way with the Silk<sup>d</sup> grass No. 31 but the colour is red

The Stems grow single, without Branches, with 8 leaves the 4 first set in pairs, the other 4 set in a coop, they are ovally shaped, sharp pointed, smooth, their edges entire

The Flowers grow many <sup>of them</sup> together, as the above, upon the top of the Stem.

No. 91.

## Asclepias tuberosa. L.

### Silk Grass

*C'up* 5 small lancet shaped Leaves, turn'd back.

*Flower* one Leaf, cut into 5 long oval shaped Segments, much larger than the *C'up* Leaves, turn'd back over them.

*Nectaria* 5 other Leaves, standing upright, shaped like a Cats E'ar, with a sharp pointed S'picke, rising up through the hollow of them bending over the midle of the flower

*Chives* 5 set round, & united to a stumped body, that covers the Pestle, they have a furrow along the midle, and Wings on each side of an triangular shape, these Wings standing outwards, from the stumped body, and each one, joining close to the Wings of the Chive next it, & forms 5 fisures, the Caps are a small thin S'cale.

*Pestle* Seed Buds two oval shaped, Styles two short threads, Tips plain, they are cover'd by the stumped body, the top of which is hollow'd, & it has 5 furrows on the sides.

*C'over* of the Seed are two very long Pods, small at both ends, or bellied, fomed of one Valve, opening length ways, & containing one Cell.

*Seeds* are numerous, ovally shaped, of very with flat thin, boarder round the crown'd with very long white Down, set close on the top of the Seed.

*Seat* of the Seed is free, it is a long membranacious Piller, small at both ends, with 10 thin narrows Wings, plac'd along it, and standing outwar'ds from the Center. The Seed is fixed to the Pillar by the top of the Down, the Down lies along it between the Wings, and the Seeds hang one above another in the order of Tiles.

Several Stems rise from one Root, they are rough & hairy, & are devided at top, into 3 Branches, & these subdevided into 2 or 3 again

The Leaves are set very thick & alternately on the Stem & Branches with very short Leaf Stalks, they are of a long ovally, shape a little square at bottom, and bluntly sharpen'd at top, very rough, with a thick Rib along the midle, their edges are boardered.

The flowers grow in Clusters, each upon a long Foot Stalk, upon the tops of the Branches, forming a regular Umbell, with a small Awl shaped Leaf, at the bottom of every Foot Stalk.

The flowers are of a bright orange colour

Flower in July

NB. The Root of this Asclepias taken in powder, is an excellent cure for the Colick, about halff a Spoonfull at a time. This cure was learn'd from a Canada Indian, & is call'd in New England Canada Root. The Excellency of this Root for the Colik is confirm'd by Dr. Porter of New England, and Dr. Brooks of Maryland likewise confirm'd this.

One ounce of the Root, chip'd into small pieces, to which put a pint & a halff of boiling water, & let it stew for about one hour, of this Decoction drinck halff a Tea cup full, every hour or two, and you bin certainly perfectly cured from the bloody Flux, and better is when you boil the Root in Claret than in Water. This cure was learnd from the Indians.

One another Asclepias growing upon a Stem  
with only 8 Leaves

The flowers agrees every way with the Silk grass No. 91 but the colour is red

The Stems grow single, without Branches, with 8 Leaves the 4 first set in pairs, the other 4 set in a cross, they are ovally shaped, sharp pointed, smooth, their edges intire

The Flowers grow many of them together, as the above, upon the top of the Stem.



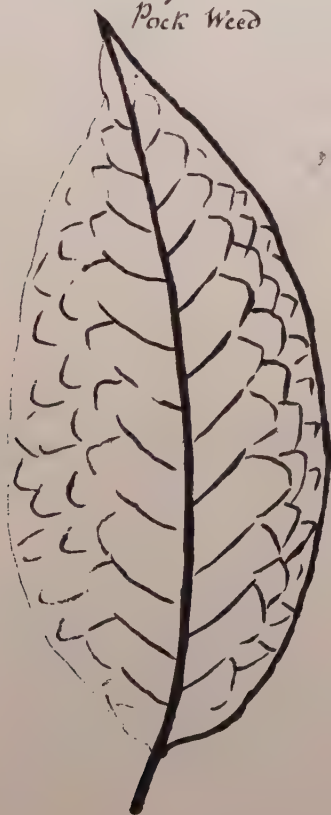
N<sup>o</sup> 91. *Asclepias*  
Silk Grass.



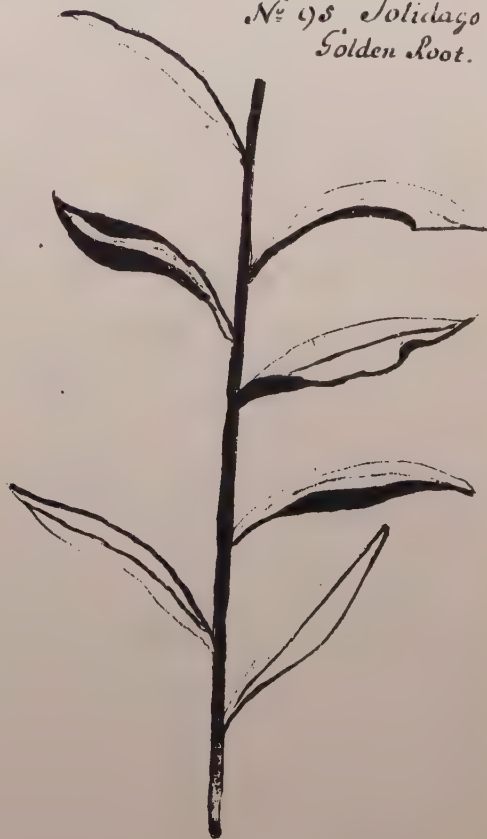
N<sup>o</sup> 92. *Apocynum*  
Indian Hemp



N<sup>o</sup> 93. *Phytolacca*  
Pock Weed



N<sup>o</sup> 94. *Solidago*  
Golden Root.



N<sup>o</sup> 93.

*Phytolacca decandra.*  
Poke Weed

1.

Cap none

Flower 5 roundish hollow leaves, continuing

Chives 10 fine threads, the length of the flower leaves, set upon them

The Caps are roundish.

Petiole Seed pod roundish a little flattened, with 10 furrows, the Styles are 10 short hairs, continuing. Tips plain

Seed Box, a globular Berry, a little flattened, with a Navel on its top composed of the Styles, containing 10 Cells, of each Cell, one roundish Seed, flattened of one Edge much thinner than the other.

The Stalk is thick & smooth, of a red colour, branched out alternately, from the corners of the leaf Stalk, the leaves stand single with long good Stalks, set alternately on the Stalk, & Branches they are large & smooth, ovally shaped, broadest near the bottom of a little sharpened, at the top more sharpened, the edges are entire, and they have a thick Rib along the middle, with veins on each side of it, branching out towards the edges of the leaf. The flowers grow in Spikes upon the top, of small naked branches, set opposite to the leaves, each flower upon a good Stalk, set alternately of with two or three small coloured leaves, set upon the good Stalks. They are white at first opening, and likewise their good Stalks of the Stalk of the Spikes, but as the fruit ripens, they all turn a dark red.

Flowers in Piecy.

N<sup>o</sup> 3. The *Phytolacca* <sup>root</sup> is very useful in the use of cankers some curious persons in England have endeavoured to <sup>propagate</sup> ~~propagate~~ this plant by the Seed brought from America, but could not produce any plant from the Seed.

The propagation from this plant is made in America in the Dung of birds. For this reason it may be necessary, to give in Europe the berries to birds, & to plant the seeds with the Dung of the fowls, through which they pass entire

No. 93.

## Phytolacca decandra

### Poke Weed

*C'up* none

*Flower* 5 roundish hollow Leaves, continuing

*Chives* 10 fine threads, the length of the flower Leaves, set upon them. The *C'aps* are roundish.

*Pestle Seed Bud* roundish a little flattend, with 10 furrows, the Styles are 10 short hairs, continuing. Tips plain.

*Seed Box*, a globular Berry, a little flatten'd, with a Navel on its top composed of the Styles, containing 10 Cells, & each Cell, one roundish Seed, flattened & one edge much thinner than the other. The Stalk is thick & smooth, of a red colour, branchd out alternately, from the corners of the Leaf Stalk, the Leaves stand single with long Foot Stalks, set alternately on the Stalk, & Branches they are large & smooth, ovally shaped, broadest near the bottom & a little sharpen'd, at the top more sharpen'd, the edges are intire, and they have a thick Rib along the middle, with fibers on each side of it, branching out towards the edges of the Leaf. The flowers grow in Spikes upon the top, of small naked branches, set opposite to the Leaves, each flower upon a Foot Stalk set alternately of with two or three small colour'd Leaves, set upon the foot Stalks. They are white at first opening, and likewise their foot Stalks & the Stalk of the Spike, but as the fruit ripens, they all turn a dark red.

Flower in July.

NB. The Phytolacca Root is very useful in the use of cancers some curious persons in England have endeavoured to propagate this plant by the Seed brought from America, but could not produce any plant from the Seed.

The propagation from this plant is maket in America in the Dung of birds. For this reason it may be necessary, to give in Europe the berries to birds, & to plant the Seeds with the Dung of the fowls, through which they pass intire



No 97. *Silene Mardagon*, or *cinerosea*.  
Yellow daisy the flowers hanging downwards.

Cup none

Flowers Pale. Stipid, the bottom narrow & the limb spread out, consisting of 6 lance shaped leaves, 3 of them have a thick Rib, along the inside, upon their out side, the other 3 have only a line instead of the Rib, they are placed alternately, the last 3 outermost, with their edges overlapping the others, as far as the Rib. for about the third part of the length of the leaves, & these are narrower pointed, than the others. The outside of all the leaves, are of a scarlet colour, of likewise their inside for about one third of their length from the top, they are then shaded off, to a yellow colour; for about another third and the inner part is white, both the white part of the yellow is spotted with dark red spots.

Chives 6 broad & flattened at bottom, gradually rounding & tapering to a fine point at top, shorter than the flower leaves. They have the shape of a Pinus, with a narrow bottom, turned bottom, upwards they hang upon the sharp point of the Chives dark brown coloured, the Chives are a pale yellow, at the first opening of the flowers, the cups are long, upright with 4 deep furrows. Pistle. Seed Bud long, bluntly 3 cornered, with 6 lines along it. Style a thread, or rather cylinder, gradually thickening towards the top, longer than the Chives, red coloured. Tip 3 cornered, dark brown coloured.

Seed Box oval shaped with 6 lines along it, composed of 3 Valves and containing 3 Cells, each Cell containing two rows of seeds. seeds very numerous, flat, one end of them sharp pointed the other end rounded.

The Stem is smooth & is either single without Branches, or is divided into, from 2 to 16 Branches all from one joint.

The leaves are lance shaped, smooth edges entire, with 3 lines along, from one point to the other, and set from 3 together to 5 in a ring round the Stem, & several of these rings one above another.

The flowers grow single upon those that have no Branches, and upon the top of the Stem, and grow upon the tops of the Branches, of those that are branched, the Branches turn round at the top, so that the flowers hang downwards.

This was taken from one that grow wild in a Swamp.

Flowers in July



Lilium Murtagon or Canadense. L.

Yellow Lily *the flowers hanging downwards*

*C'up* none

*Flower* Bell shaped, the bottom narrow & the Brim spread out, consisting of 6 lancet shaped Leaves, 3 of them have a thick Rib, along the middle uper their out side, the other 3 have only a Line instead of the Rib, they are placed alternately, the last 3 outermost, with their edges overlaping the others, as far as the Rib, for about the third part of the length of the Leaves, & these are narrower pointed, than the others The outside of all the Leaves, are of a scarlet colour, & likewise their inside for about one third of their length from the top, they are then shaded off, to a yellow colour, for about another third and the under part is white, both the white part & the yellow is spotted with dark red spots.

*Chives* 6 broad & flatten'd at bottom, gradually rounding & tatering to a fine point at top, shorter than the flower Leaves. *C'aps* the shape of a C'one, with a narrow bottom, turn'd bottom upwards they hang upon the sharp point of the Chives dark brown colour'd, the Chives are a pale yellow, at the first opening of the flowers, the Caps are long, upright with 4 deep furrows.

*Pestle* Seed Bud long, bluntly 3 corner'd, with 6 Lines along it. *Style* a thread, or rather cylinder, gradually thickning towards the top, longer than the Chives, red colour'd. Tip 3 corner'd, darck brown colour'd.

*Seed Box* oval shaped with 6 Lines along it, composed of 3 Valves and containing 3 Cells, each Cell containing two rows of Seeds

*Seeds* very numerous, flat, one end of them sharp pointed the other end rounded.

The Stem is smooth & is either single without Branches, or is devided into, from 2 to 16 Branches all From one joint The Leaves are lancet shaped, smooth edges intire, with 3 Lines along, From one point to the other, and set from 3 together to 9 in a ring round the Stem, & several of these Rings one above another.

The flowers grow single upon those that have no Branches, and upon the top of the Stem, and grow upon the tops of the Branches, of those that are branch'd, the Branches turn round at the top, so that the flowers hang downwards.

This was taken from one that grow wild in a Swamp.

Flowers in July.

N<sup>o</sup> 97. *Lilium Martagon*  
Imperial Crown.



N<sup>o</sup> 102

Glycine, Apoc. Gronov.

N<sup>o</sup> 111.

Lup, one leaf, short wide & flattened, the Brim top cut into 3 shallow unequal segments, it can scarcely be said to have 2 lips, the two uppermost segments are broad & very shallow, the 3 under ones are longer & sharp pointed, the middle one longest.

Flag very large in proportion to the other flower leaves, Heart shaped the two sides embracing the Wings & Nub, with a bump on the base of it just above the lup, and another on the top, made by the top, of the Nub's pressing against it before it was open.

Wings two small leaves set oppositely on each side of the flowers, their tops are ovally shaped, from the middle down narrower, & have small short Necks.

Nub a long narrow leaf, surrounding the Ped. Bud, & part of the style the top of it turned round with the style, forming almost a circle, the top is divided into 6, & likewise the Neck or bottom.

Chives 10, none of them short threads, set upon the top of a long crinkled sheath, that surrounds the Perle, within the Nub the sheath is open on one side & the 10 chive is a long single thread, covering the rest of the sheath, all their tops are oval shaped.

Perle seed the cylindrical, a little flattened, bend in the shape of the letter S. Style cylindrical, turning round; somewhat Spirals longer than the Nub, Top plain.

Pod Box a long cylindrical Pod, containing about 9 rounded with Greens

The Stalk is a slender Vine, that cannot support itself

The leaves are pinnated, with 2 pairs of Pinnae & ending with an odd one, the Pinnae are long, rounded at bottom, & tapering to a sharp point at top. The leaves are placed thin on the Vine, & alternately

The flower Branch grows from the same joint with the leaf stalk, the flowers have each a short foot stalk, & grow in a spike on the tops of the branches. They are of a dark red colour.

The root is very singular, sending out long slender fibres, which creep along the surface of the ground, with fleshy solid Bulbs of an oval shape placed on them, at about half a foot distance from each other, these Bulbs do not hang, but appear like the fibres, it self swelled out at those parts, some of them are about an Inch in Diameter

Flowers in July



## Glycine, Apios Gronov.

*C'up* one Leaf, short wide & flatten'd, the Brim top cut into 5 shallow unequal Segments, it can scarcely be said to have 2 Lips, the two uppermost Segments are broad & very shallow, the 3 under ones are longer & sharp pointed, the middle one longest.

*Flag* very large in Proportion to the other flower Leaves, Heart shaped the two sides embracing the Wings & Hull, with a bump on the back of it just above the Cup, and another on the top, made by the top, of the Hull's pressing against it before it was open.

*Wings* two small Leaves set oppositely on each side of the flowers, their tops are ovaly shaped, from the middle down narrower, & have small short Necks.

*Hull* a long narrow Leaf, surrounding the Seed Bud, & part of the Style the top of it turn'd round with the Style, forming almost a Circle, the top is divided into 2, & likewise the Neck or bottom

*Chives* 10, none of them short threads, set upon the top of a long crooked Sheath, that surrounds the Pestle, within the Hull the Sheath is open on one side & the 10 Chive is a long single thread, covering the Slit of the Sheath, all their Caps are oval shaped

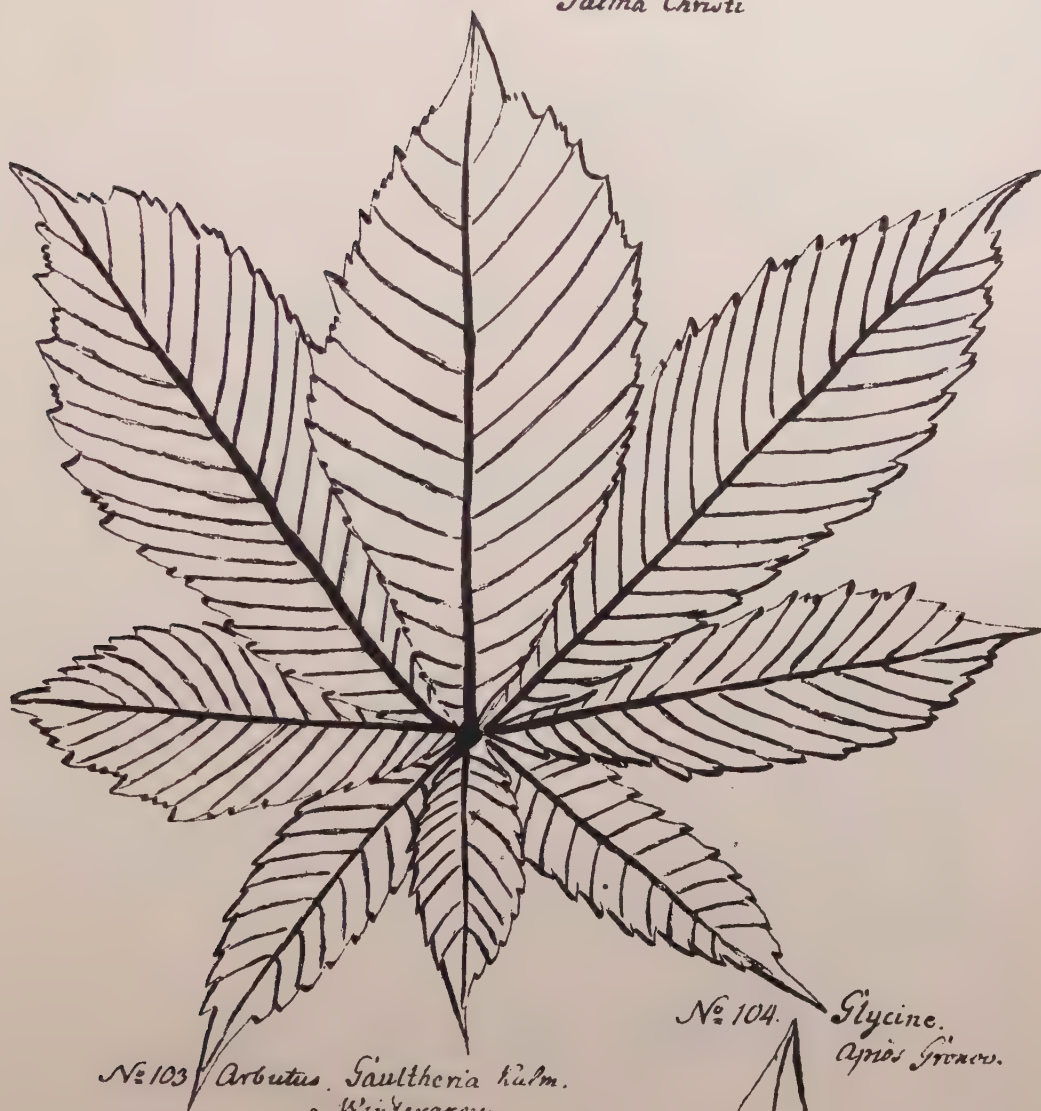
*Pestle Seed Bud* cylindrical, a little flatten'd, bent in the shape of the Letter S. Style cylindrical, turning round, somewhat Spirally longer than the Hull, Tip plain.

*Seed Box* a long cylindrical Pod, containing about 9 roundish Beans

The Stalk is a slender Vine, that cannot support itself The Leaves are pinnated, with 2 pairs of Pinna & ending with an odd one, the Pinna are long, rounded at bottom, & tapering to a sharp point at top. The Leaves are placed thin on the Vine, & alternately The flower Branch grows from the same joint with the Leaf Stalk the flowers have each a short foot Stalk, & grow in a Spike on the tops of the branches. They are of a dark red colour. The root is very singular, sending out long slender fibers, which creep along the Surface of the Ground, with fleshy solid Bulbs of an oval shape placed on them, of about half a foot distance from each other, these Bulbs do not hang, but appear like the fiber, it self swell'd out at those parts, some of them are above an Inch in Diameter

Flower in July

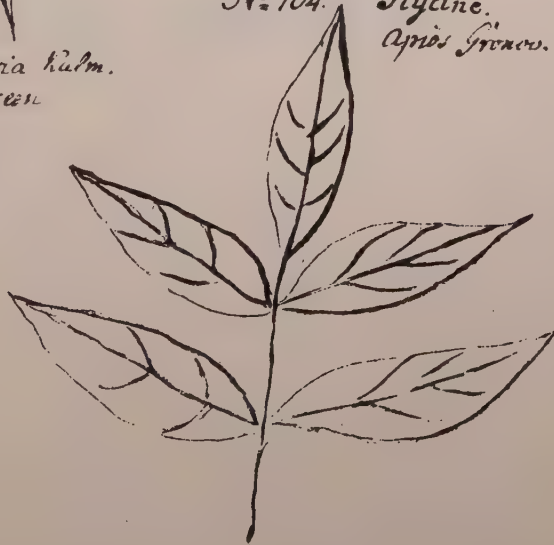
Nº 102. *Licinus*  
*Palma Christi*



Nº 103. *Arbutus*. *Saultheria kalm.*  
*a Wintergreen*



Nº 104. *Glycine.*  
*Apis Græc.*



18<sup>th</sup> M.

*Saururus*  
Heart leaved Saururus Tail

M. 4.

Cup one oval shaped hollow leaf, placed on the lower side, of the flower, coloured & continuing

Flower leaf none

Chives 6 long fine threads, 3 on each side, placed oppositely.  
Caps long & erect

Pistil Seed (Bud) of an oval figure, formed of 4 dots, Styles 4, very short, tips turn round outwards, continuing.

Stalk thick & rigid, branched out alternately.

Leaves have each a leaf stalk & stand single at the joints. They are heart shaped, smooth, & their edges entire, the leaf stalks are hollow, with a thin membrane on each edge, that is extended a little way over the bottom of the leaf, on the face of it, this part of it is shaped, like the end of a Brood.

The flowers are very small, & are set thick upon long spikes that grow from the corners of the leaf stalks. The flowers are white. This grows on the edges of Brooks.

Flowers in July



No. 114.

## Saururus

### Heart Leaved Lizar'ds Tail

*Cup* one oval shaped hollow Leaf, placed on the lower side, of the flower, colour'd & continuing

*Flower Leaf* none

*Chives* 6 long fine threads, 3 on each side, placed oppositely.  
*C'aps* long & erect

*Pistle Seed Bud* of an oval figure, form'd of 4 Lobs, Styles 4, very short, Tips turn'd round outwards, continuing.

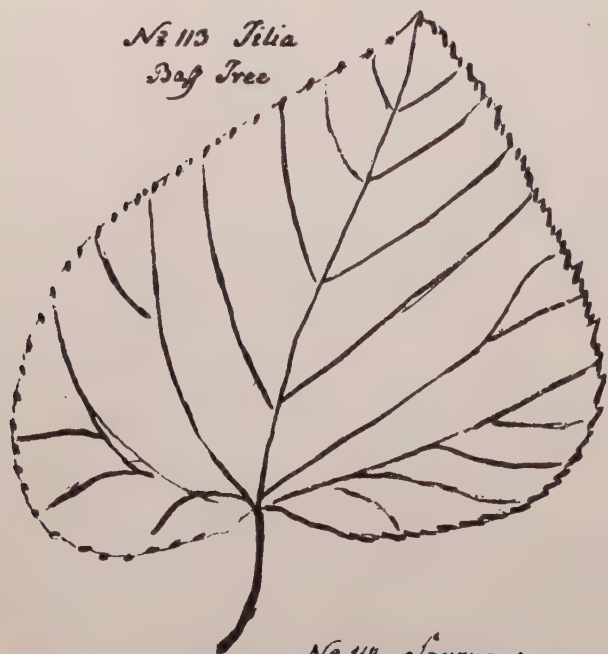
*Stalk* thick & rigid, branched out alternately.

Leaves have each a Leaf Stalk & stand single at the joints they are Heart shaped, smooth, & their edges intire, the Leaf Stalk are hollow, with a thin membrane on each edge, that is extended a little way over the bottom of the Leaf, on the face of it, this part of it is shaped, like the end of a Boat

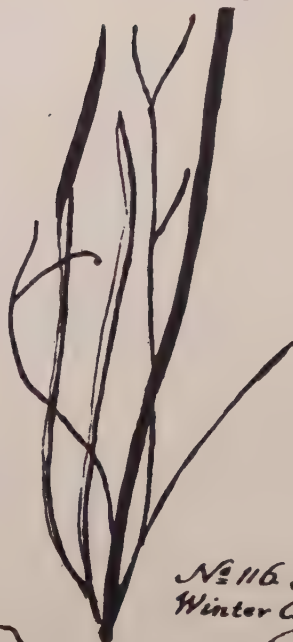
The flowers are very small, & are set thick upon long Spikes that grow from the corners of the Leaf Stalks. The flower are white. This grow on the edges of Brooks.

Flowers in July

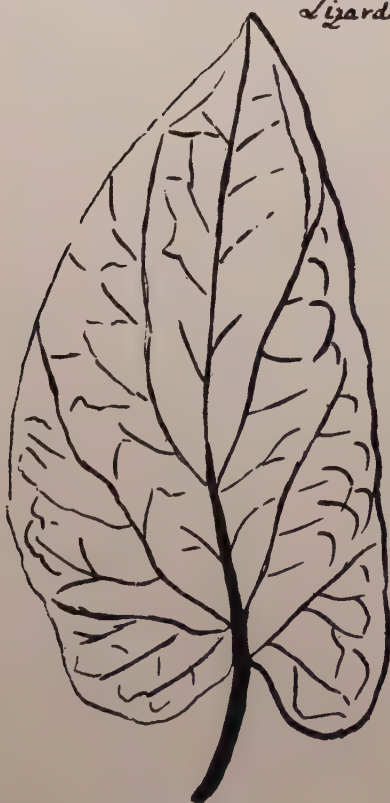
N<sup>o</sup> 113 *Tilia*  
Bass Tree



N<sup>o</sup> 115 *Omithogalum*  
Star of Bethlehem



N<sup>o</sup> 114 *Saururus*  
Lizard's Tail.



N<sup>o</sup> 116 *Physalis*  
Winter Cherry.



N<sup>o</sup> 121. Verbasicum  
Yellow Moth Mullen

Stem cut deep into 5 narrow sharp pointed segments, containing  
Flower one leaf, spread flat, with a very short pipe, the  
edge cut into 5 round scallops.

Chives 5 threads, covered with a purple coloured down, set  
upon the top of the pipe, they are of unequal lengths, the  
upper one is shortest, & the two under ones longest, the  
last are the length of the flower leaf. Caps round with  
White Lead Band globular, Style a thread, about the length  
of the Chives. Tip thick.

Seed Box globular, composed of two Valves, each Valve is  
slit in the middle, a little way downwards from the top,  
the Valves do not separate, till long after the Seed is  
ripe, & the Box dry, the Boxes continuing long on the stalk,  
containing two Cells.

Seeds numerous very small & corned.

Receptical is roundish, compressed, placed in the middle of  
the Box.

The Stalk is stiff & from above the middle is branched  
out alternately.

The leaves stand closely & alternately on the stalk, below  
the branches, without foot stalks, they are long & narrow  
broadest at bottom & taper to a sharp point, their  
edges are irregularly indented.

The flowers have each a long hairy foot stalk, &  
stand thin upon the top of the stalk, & all along  
the Branches, with a small lance shaped leaf  
at the bottom of every foot stalk. They are  
a bright yellow

Flower in July.

No. 121.

## Verbascum

### Yellow Moth Mullen

*Cup* cut deep into 5 narrow sharp pointed Segments, continuing

*Flower* one Leaf, spread flat, with a very short pipe, the edge cut into 5 round scallops.

*Chives* 5 threads, cover'd with a purple colour'd down, set upon the top of the pipe, they are of unequal lengths, the upper one is shortest, & the two under ones longest, the last are the length of the flower Leaf. Caps roundish

*Pistill Seed Bud* globular, Style a thread, about the length of the Chives. Tip thick

*Seed Box* globular, composed of two Valves, each Valve is slit in the middle, a little way downwards from the top, the Valves do not separate, till long after the Seed is ripe, & the Box dry, the Boxes continuing long on the Stalk containing two Cells.

*Seeds* numerous very small & corner'd.

*Receptical* is roundish, compre'ssd, placed in the middle of the Box.

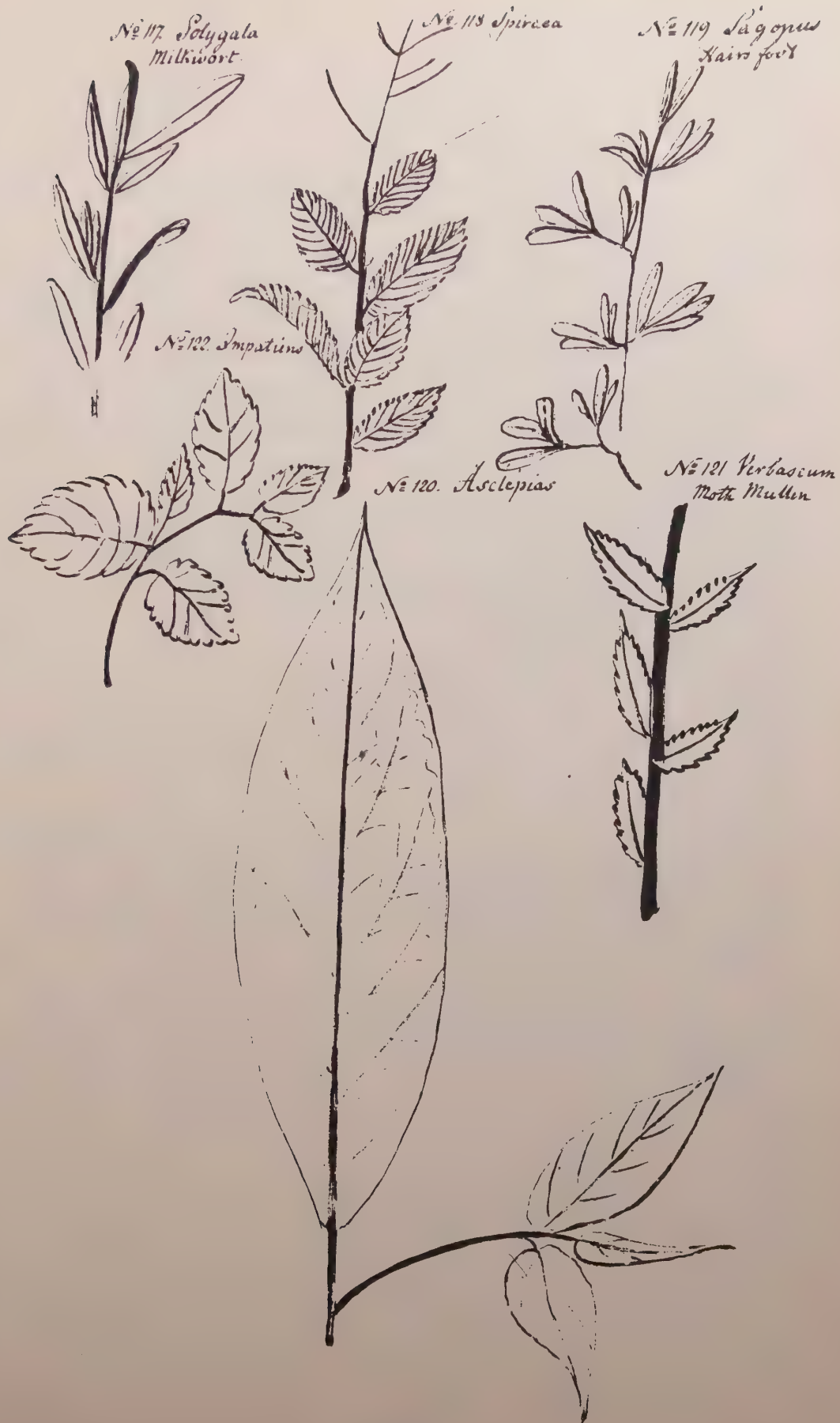
The Stalk is stiff & from above the middle is branch'd out alternately.

The Leaves stand closely & alternately on the Stalk, below the branches, without foot Stalks, they are long & narrow broadest at bottom & taper to a sharp point, their edges are irregularly indented.

The flowers have each a long hairy foot Stalk, & stand thin upon the top of the Stalk, & all along the Branches, with a small lancet shaped Leaf at the bottom of every Foot Stalk. They are a bright yellow

Flower in July.





N<sup>o</sup> 125. Minullus ringens L.

XIV. 2.

Lip a 3 corner'd Pipe, each corner ridges, its Mouth is cut into 3 erect, narrow sharp pointed segments, continuing  
Flower one leaf, with a Pipe along as the Lip, its mouth is large & divided into two, the upper lip is cut into two round scallops, their sides turned back, the under lip is broad, & cut into 3 round scallops & turned down.

Clives 4 inserted into the Pipe of the flower leaf, two of them shorter, about the length of flower Pipe, standing close against the back of it. Lips double

Pistils 2 or 3 oval shaped, Style & Stigma lying against the upper lip. Tip divided into 3 flat round segments.

Seed Box is ovally shaped, sharp pointed, enclosed within the Lip, it is composed of 2 Valves & contains 2 Cells

Receptical is free, long & sharp pointed

Seeds numerous, oval shaped & very small

Root is tuberosus covered with sharp pointed Scales, & sends out many Fibers

The Stalk is square & rises single, & is branched out opposite the leaves stand in pairs, without foot stalks, surrounding the Stalk at their base, they are about 3 times as long as they are broad, broadest in the middle & sharp pointed at top, & their edges are indented.

The flowers grow single, upon long foot stalks, placed oppositely at the Corners of the leaves, both upon the stalks & branches, they are large of a purplish blue colour, they grow in wet ground

Flowers in July.

No. 125.

## Mimulus ringens L.

*Cup* a 5 corner'd Pipe, each corner ridges, its Mouth is cut into 5 erect, narrow sharp pointed Segments, continuing

*Flower* one Leaf, with a Pipe along as the Cup, its mouth is large and devided into two, the uper Lip is cut into two round scallops, their sides turn'd back, the under Lip is broad, & cut into 3 round scallops & turn'd down.

*Chives* 4 inserted into the Pipe of the flower Leaf, two of them shorter, about the length of flower Pipe, standing close against the back of it. C'aps double

*Pistill Seed Bud* oval shaped, Style a Tread lying against the upper Lip. Tip devided into 2 flat round Segments.

*Seed Box* is ovally shaped, sharp pointed, inclosed within the Cup, it is composed of 2 Valves & contains 2 Cells

*Receptical* is free, long & sharp pointed

*Seeds* numerous, oval shaped & very small

*Root* is tuburous cover'd with sharp pointed Scales, & sends out many Fibers

The Stalk is square & rises single, & is branched out oppositly The Leaves stand in pairs, without foot Stalks, sourrounding the Stalk at their base, they are about 3 times as long as they are broad, broadest in the middle & sharp pointed at top, & their edges are indented.

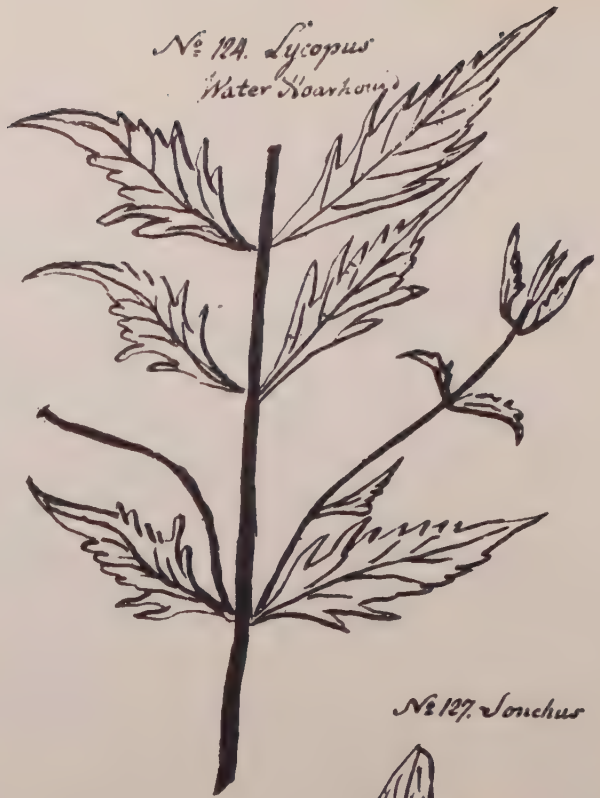
The flowers grow single, upon long Foot Stalks, placed oppositely at the Corners of the Leaves, both upon the Stalk & Branches, they are large of a purplish blue colour, they grow in the Wut ground

Flowers in July.

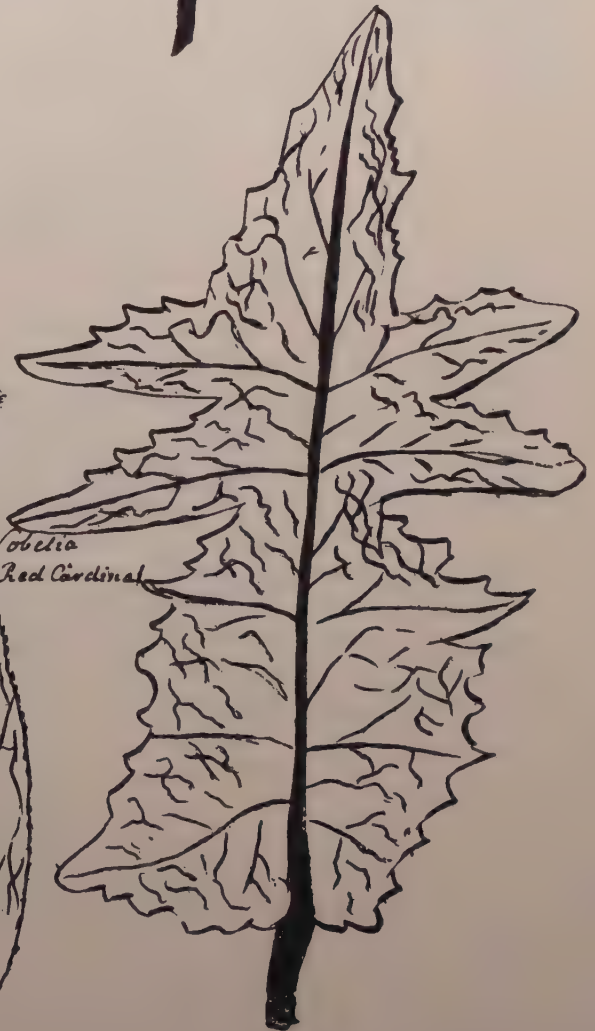
Nº 123. *Spiraea*



Nº 124. *Lycopus*  
*Water Horehound*



Nº 127. *Sonchus*



Nº 125. *Mimulus*



Nº 126. *Lobelia*  
*Red Cardinal*



N<sup>o</sup> 126.

lobelia

XIX. (mang.)

Red Cardinal Flower

Cup or seed pod is formed of a hemispherical figure, & ridged, with a large Wing divided into 5 linear very long sharp pointed segments, converging

Flower one leaf, with a long Pipe, it is thickest at bottom, & is open on the upper side, the Wing is wide & ends into 5 long sharp pointed segments, the two upper ones are narrower than the others, out deeper & bend upwards, the 3 lower ones bend down.

Chives 5 they are broad & flat at bottom, separated from one another but one third of their length, then uniting, form a 3 cornered Tube, surrounding the Style, it is longer than the Pipe of the flower leaf, the Caps forms a hollow cylinder surrounding the Tip of the Style, the cylinder of the Caps is a little bent & has a cluster of short hairs, set upon one side of it.

Pericarp seed pod under the seat of the flower, the shape of a half globe, it has 10 ridges along it, & style a small cylinder. Tip formed of 2 roundish hollow leaves.

Seed Non roundish, with 10 ribs along it, & containing 2 cells  
Seeds numerous, oval shaped, & very small,

The Stalk is thick, hollow & striated, and is branched out a stem  
The leaves are long & narrow, broadest in the middle, & sharp point  
ed at both ends, their edges are red thick, with small dots  
they have scarce any leaf stalks, and are set alternately  
on the stalk?

The flowers grow in a long spike, near half the length of a  
stalk, both upon the stalk & branches they have each a long  
red stalk, & are set alternately round the stalk, with a leaf  
at the bottom of every red stalk, the leaves under the  
lower flowers are little less, than those on the under part  
of the stalk, but grow gradually less towards the top, where  
they are very small, the flowers are of a bright scarlet  
colour

Flower in July & grow along the sides of Brooks.

No. 126.

## Lobelia

### Red C'ardinal Flower

*C'up* or seed Bud is form'd of a hemispherical figure, & ridged, with a large Brim devided into linias very long sharp pointet Segments, continuing

*Flower* one Leaf, with a long Pipe, it is thickest at bottom & slit open on the uper side, the Brim is wide & cut into 5 long sharp pointed Segments, the two uper ones are narrower than the others cut deeper & bent upwards, the 3 lower ones bent down.

*Chives* 5 they are broad & flat at bottom, separated from one another but one third of their length, then uniting, form a 3 corner'd Tube, sourrounding the Style, it is longer than the Pipe of the flower Leaf, the Caps forms a Hollow cylinder sourrounding the Tip of the Style, the cylinder of the C'ap is a little bent & has a Cluster of short hairs, set upon one side of it.

*Pistill Seed Bud* under the seat of the flower, the shape of a halff Globe, it has 10 ridges along it, Style a small cylinder. Tip form'd of 2 roundish hollow Leaves.

*Seed Box* roundish, with 10 Ribs along it, & containing 2 Cells

*Seeds* numerous, ovally shaped, & very small, The Stalk is thick, hollow and Striated, and is branched out altern The Leaves are long & narrow, broadest in the midle, & sharp pointed at both ends, their edges are set thick, with small dots they have scarce any Leaf Stalks, and are set alternately on the Stalk.

The flowers grow in a long Spicke/F near halff the length of th Stalk,/F both upond the Stalk & branches/ they have each a long Foot Stalk, & are set alternately round the Stalk, with a Lea at the bottom of every Foot Stalk, the Leaves under the lowest flowers are little less, than those on the under part of the Stalk, but grow gradually less towards the top, wh they are very small, the flowers are of a bright scarlet colour

Flowers in July & grows along the sides of Brooks.

N<sup>o</sup> 1142.

*Sagittaria* ~~mag.~~ <sup>Al. Engelm.</sup> *folia* - Don. v. 116

Male flower - Water Arrow-head

Cup 3 oval shaped hollow leaves, turned back downwards

Flowers 3 large roundish leaves, spread out, with short necks, set upon the cup.

Chios many, they are thick & short, growing from a small roundish head, Cups 3 cornered & flat.

Female flower.

Cup & flower leaves are the same as the above, but some of them have 4 of each leaves. The Cup continues

Pistils numerous very small, collected into a round head

Seeds Woods are flattened, styles short, tips sharp.

Seed Box none

Seeds are very numerous naked, collected in a globular head they are somewhat half Moon shaped, & very flat.

Receptacle is globular

The flower stalks grow single without branches or leaves, thick & smooth & 3 cornered towards the top, there are many naked leaf stalks from the same root

The leaves grow single one on the top of each leaf stalk they are large & oval shaped, the under end is divided in two by a gash, for near half the length of the leaf the stalk is placed under the middle of the leaf, at the end of the gash, their edges are entire

The flowers have each a long root stalk, & stand three together round the stalk, & several rows of these, one above another at about an inch & a half distance.

The flower is white, the Chios & Pistils are yellow,

The male & female flowers grow upon different plants, they grow in the water, 3 or 4 or more leaf stalks grow from the same root with the flower stalk

Flowers in July

Sagittaria agittifolia

Watter Arrow= head

*Male flower*

*C'up* 3 oval shaped hollow Leaves, turn'd back downwards

*Flower* 3 large roundish Leaves, spread out, with short Necks, set upon the Cup.

*Chives* many, they are thick & short, growing from a small roundish head, C'aps 3 corner'd & flat.

*Female flower*

*Cup & flower* Leaves are the same as the above, but some of them have 4 of each Leaves. The C'up continues

*Pistills* numerous very small, collected into a round Head

*Seeds Buds* are flatten'd, Styles short, Tips sharp.

*Seed Box* none

*Seeds* are very numerous naked, collected in a globular head they are somewhat half Moon shaped, & very flat.

*Receptical* is globular

The flower Stalks grows single without Branches or Leaves, thick & smooth & 3 corner'd towards the top, there are many naked Leaf Stalks from the same Root

The Leaves grow single one on the top of each Leaf Stalk they are large & ovally shaped, the under end is divided in two by a gash, for near half the length of the Leaf the Stalk is placed under the middle of the Leaf, at the end of the gash, their edges are intire

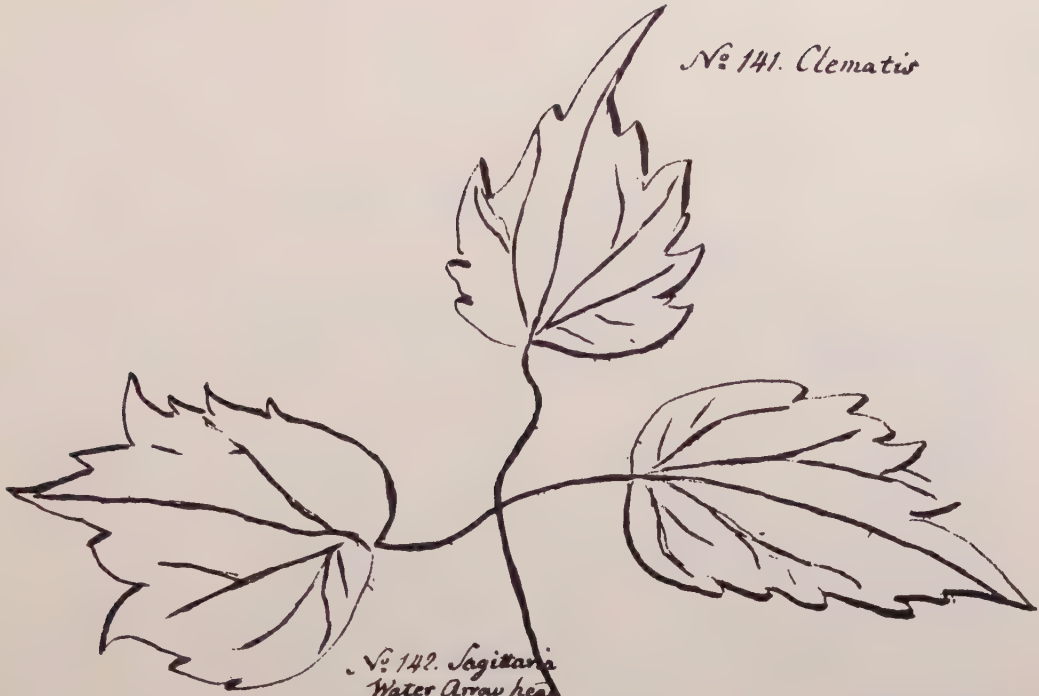
The flowers have each a long Foot Stalk, & stand three together round the Stalk, & several rows of these, one above another at about an inch & a half distance.

The flower is white, the Chives & Pistills are yellow, The male & female flowers grow upon differents Plants, they grow in the Water, 3 or 4 or more Leaf Stalks grow from the same Root with the flower Stalk

Flower in July.



Nº 141. Clematis



Nº 142. Sagittaria  
Water Arrow head



Nº 143. Cephalanthus



N<sup>o</sup> 129

*Eupatorium Scandiac*  
A running Vine.

Common covering is composed of 4 lanceol shaped erect Leaves, the upper half is coloured, they inclose 4 small Flowers there is no Receptical

The flower is the same as N<sup>o</sup> 134 & likewise the Seed This grows upon long Vines, that twist together, or round any thing near them, the Vines are ridged.

The leaves have such a long Leaf stalk, & are set in pairs on the vine, they are upon the Heart shape, but end in a narrow sharp point, & their Edges are cut in Waves, with 3 feters running along the middle of the leaf and others, branching out towards the bottom & Edges.

The flowers grow in Umbels, upon long general foot stalks, set oppositely at the Corners of the leaves, the general Involucrum is composed of two small leaves set oppositely they are of the same shape, as the other leaves, but smaller in proportion. The partial Umbel has no leaves, only one small leaf at the bottom of every flower cup. The flowers are of a pale Red, & very sweet scented they grow in Wet ground

Flower in August

No. 149.

## Eupatorium Scandens

### A running Vine

*Common covering* is composed of 4 lancet shaped erect Leaves, the upper half is colour'd, they inclose 4 small Flowers there is no Receptical

*The flower* is the same as No. 134 & likewise the Seed This grows upon long Vines, that twist together, or round any thing near them, the Vines are ridged.

The Leaves have each a long Leaf Stalk, & are set in pairs on the Vine, they are upon the Heart shape, but end in a narrow sharp point, & their edges are cut in Waves, with 3 Fibers runing along the middle of the Leaf and others, branching out towards the bottom & edges.

The flowers grow in Umbells, upon long general foot Stalks, set oppositely at the C'orners of the Leaves, the general Involucrum is composed of two small Leaves set oppositely they are of the same shape, as the other Leaves, but smaller in proportion. The partial Umbell has no Leaves, only one small Leaf at the bottom of every flower Cup

The flowers are of a pale Red, & very sweet sented they grow in Wet ground

Flower in August

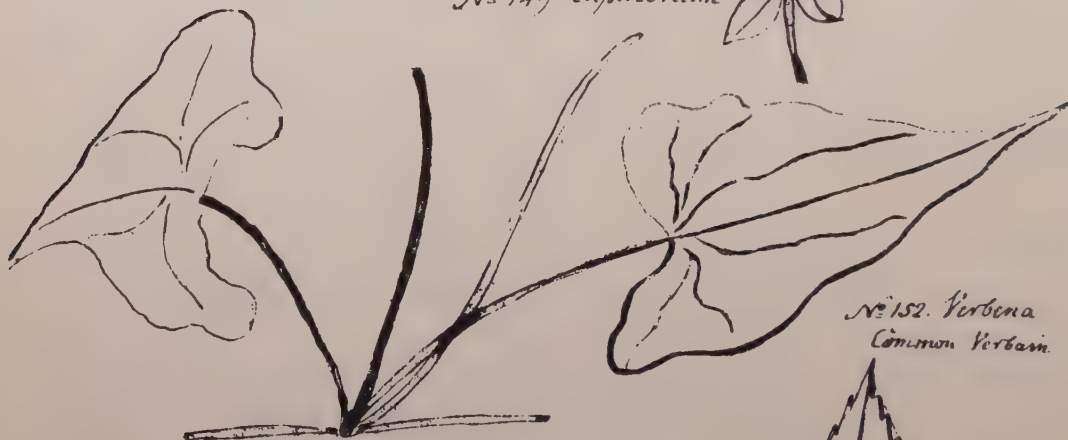
Nº 148. *Potentilla*



Nº 150. *Crucata*  
Cress Wort.



Nº 149. *Eupatorium*



Nº 152. *Verbena*  
Common Verbain.



Nº 151. *Mentha*  
Peppermint.





N<sup>o</sup> 151.

Pulegium, Mentha pulegium  
Peimiroyal

Cup one leaf, pipe shaped, bumped at bottom, the mouth is cut into 5 sharp pointed segments, the 3 upper ones are largest, the 2 under ones are very narrow

Flower one leaf, pipe shaped, very narrow at bottom, & widened at top, the Brim is cut into 4 roundish segments the upper & under ones are longer than the sides ones, the upper ones stand erect, and is a little arched, the under one is slightly Heart shaped.

Leaves 2, two shorter, inserted into the pipe, of the flower leaf, standing close together, along the upper segments, a little shorter than it. The lips roundish.

Pitile seed Buds, 4 united in the bottom of the Cup, Style a Thread, a little shorter than the upper segment, of the flower leaf, Tip turned round.

Seeds roundish, 4, naked, in the bottom of the Cup.

This is a small Plant, the Stalk is hairy, & is branched out oppositely from the corners of the leaf stalks?

The leaves are of a narrow ovally shaped, bluntly pointed at both ends, with one small notch on each side, at about one third of the length of the leaf from the tip, they have each a leaf stalk, & stand in pairs on the stalk, & Branches.

The flowers have each a short foot stalk, & grow in whorls round the stalk & Branches, at the corners of the leaves, they are small, of a pale bluish colour, grows in replead

Flower in August.

No. 151.

## Mentha pulegium

### Penniroyal

*C'up* one Leaf, pipe shaped, bumped at bottom, the mouth is cut into 5 sharp pointed Segments, the 3 uper ones are largest, the 2 under ones are very narrow

*Flower* one Leaf, pipe shaped, very narrow at bottom, & widened at top, the Brim is cut into 4 roundish Segments the uper & under ones are longer than the sides ones, the uper ones stands erect, and is a little arched, the under one is slightly Heart shaped.

*Chives* 4, two shorter, inserted into the pipe, of the flower Leaf, standing close together, along the uper Segments, a little shorter than it. The Caps roundish.

*Pistill Seed Buds*, 4 united in the bottom of the C'up, Style a Thread, a little shorter than the uper Segment, of the flower Leaf, Tip turn'd round.

Seeds roundish, 4, naked, in the bottom of the Cup.

This is a small Plant, the Stalk is hairy, & is branched out oppositely from the C'orners of the Leaf Stalks.

The Leaves are of a narrow ovally shaped, bluntly pointed at both ends, with one small notsch on each side, at about one third of the length of the Leaf from the top, they have each a Leaf Stalk, & stand in pairs on the Stalk, & Branches.

The flowers have each a short foot Stalk, & grow in Wherls round the Stalk & Branches, at the C'orners of the Leaves, they are small, of a pale bluish colour, grows in upland

Flower in August.

No 152

*Verbena* <sup>11.</sup>  
Common Vervain

Cup one leaf, a square Tube, one of the sides is a little broader than the others, it has a sharp tooth upon every corner of one a little shorter than the others, set upon the middle of the broadest side of the Cup, continuing

Flower one leaf with a cylindrical Pipe of the length of the Cup, a little bend, the Brim is spread & divided into 3 ovally shaped segments.

Chives 4, very short, scarce perceivable, set within the mouth of the flower Pipe, Laves roundish

Pistil Seed Bud oval shaped, in the bottom of the Cup, Style Thread, shorter than the flower pipe. Tip divided into two unequal Parts.

Seeds 4, naked in the Cup, they are long & thin 3 corners one a little rounded.

The Stalk rises high, about 4 or 5 feet, it is square, with a hollow on each side, branched out at top oppositely from the corners of the leaves

The Leaves stand, thinly, in pairs on the Stalk & Branches they are long & narrow, broadest in the middle, & sharp pointed at both ends, they are rough & their edges are cut like the teeth of a Saw.

The flowers grow in long thin Spikes, on the top of the Stalk & Branches, every Branch carrying 3 or 4 spikes, the flowers are set closely on the Spikes without good stalks, with a small leaf at the bottom of every Cup, the flowers are small, they are of a bluish purple colour.

Flower in August.

N.B. The white flowered Verbena, differs in nothing from the exceeding the colour of the flowers, & the leaves being broader in proportion to their length.

No. 152.

## Verbena

### C'ommon Verbain

*C'up* one Leaf, a square Tube, one of the sides is a little broader than the others, it has a sharp tooth upon every corner of one a little shorter than the others, set upon the middle of the broadest side of the C'up, continuing

*Flower* one Leaf with a cylindrical Pipe of the length of the Cup, it is a little bent, the Brim is spread & divided into 5 ovally shaped Segments.

*Chives* 4, very short, scarce perceivable, set within the mouth of the flower Pipe, C'aps roundish

*Pistill Seed Bud* oval shaped, in the bottom of the Cup, Style Thread, shorter than the flower pipe. Tip divided into two unequal Parts.

*Seeds* 4, naked in the Cup, they are long & thin 3 corner'd ones & a little rounded.

The Stalk rises high, about 4 or 5 feet, it is square, with a hollow on each side, branched out at top oppositely from the Corners of the Leaves

The Leaves stand, thinly, in pairs on the Stalk & Branch they are long and narrow, broadest in the middle, & sharp pointed at both ends, they are rough & their edges are cut like the teeth of a Saw.

The flowers grow in long thin Spikes, on the top of the Stalks & Branches, every Branch carrying 3 or 4 Spikes, the flowers are set closely on the Spikes without foot Stalks, with a small Leaf at the bottom of every Cup, the Flowers are small, they are of a bluish purple colour.

Flower in August.

NB. The white flower'd Verbena, differs in nothing from the excepting the colour of the flowers, & the Leaves being broader in proportion to their length.



Nº 153. *Gardenia*

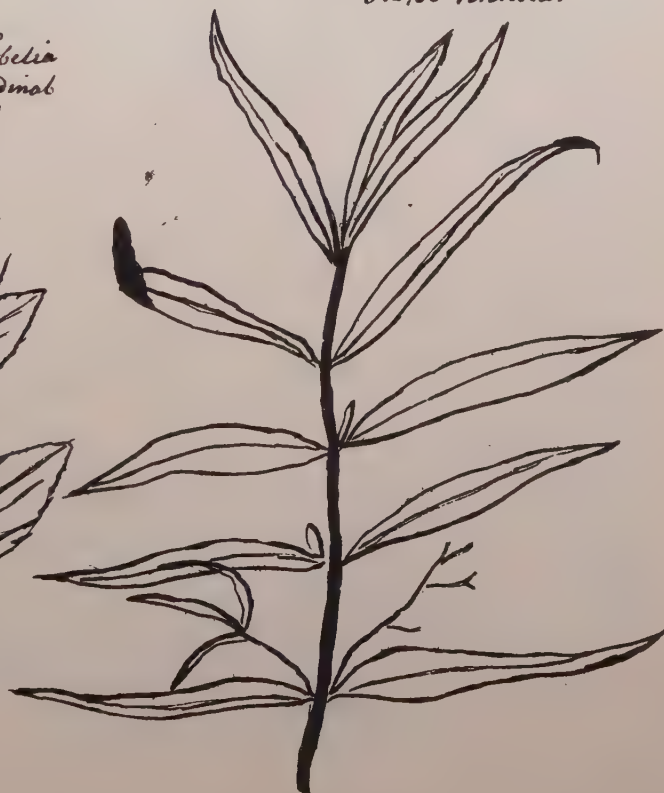
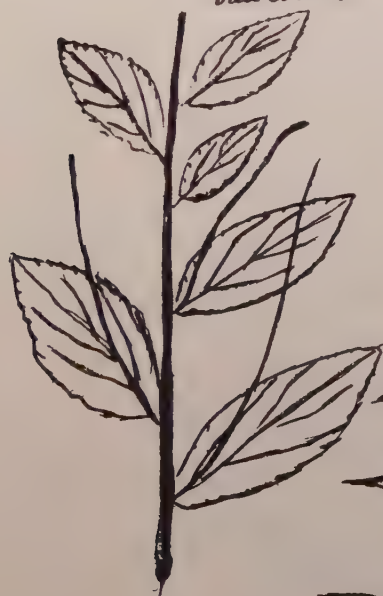


Nº 154 *Digitalis*



Nº 156 *Veronica*.

Nº 155. *Lobelia*  
*blue Cardinal*



N<sup>o</sup> 154. *Digitalis*  
*Yellow Foxglove*

11/16 2.

Cup one long leaf, pipe shaped, its stem cut half down, into 5 unequal segments, one of them much smaller, than the others, they have each 2 or 3 deep gashes on the sides, standing downwards, containing.

Flower one leaf, pipe shaped, gradually widening to the top, the stem is spined, & cut into 5 round hollow scallops,

Chives 4, two shorter, they are thick threads, hairy at bottom inserted into the bottom of the flower pipe (which is like wire hairy) the longest two are the length of the pipe. Lips long & double, hanging down from the tops, of the Chives, they have two sharp prickers like tails

Roots see the oval shaped, in the bottom of the cup, like a thread longer than the Chives. Tip thick & bend.

Seed Box ovally shaped, sharp pointed, composed of two valves, & containing 4 Cells.

Seeds numerous small & curved

Stalk robust, smooth & square, branched out oppositely into many Branches

Leaves stand in pairs on the Stalk & Branches, they are long narrow, their sides cut above half way to the middle Rib, into many oval shaped segments, which segments are again indented

The flowers have such a long Root Stalk, placed oppositely on the Stalk & Branches. From the corners of the leaves, They are of a bright yellow colour, the flower is the same with N<sup>o</sup> 155. Grows on Upland

Flowers in August.

No. 154. XIV. 2.

## Digitalis

### Yellow Foxglove

*Cup* one large Leaf, pipe shaped, its Brim cut half down, into 5 unequal Segments, one of them much smaller, than the others, they have each 2 or 3 deep gashes on the sides, standing downwards, continuing.

*Flower* one Leaf, pipe shaped, gradually widening to the top the Brim is spread, & cut into 5 round hollow scallops,

*Chives* 4, two shorter, they are thick threads, hairy at bottom inserted into the bottom of the flower pipe/which is like wise hairy/ the longest two are the length of the Pipe. C'aps long & double, hanging down from the tops, of the Chives, they have two sharp prikers like tails

*Pistill Seed Bud* oval shaped, in the bottom of the Cup, Style a thread longer than the Chives. Tip thick & Bent.

*Seed Box* ovally shaped, sharp pointed, composed of two Valves, & containing 4 Cells.

*Seeds* numerous small & corner'd

*Stalk* robust, smooth & square, branched out oppositely into many Branches

Leaves stand in pairs on the Stalk & Branches, they are long narrow, their sides cut above half way to the middle Rib, into many oval shaped Segments, which Segments are again intended

The flowers have each a long Foot Stalk, placed oppositely on the Stalk & Branches from the corners of the Leaves,

They are of a bright yellow colour, the flower is the same with No. 185. Grows on Upland

flowers in August.

No 157

Will. & C. & Co.

*Ambrosia artemisiifolia* - Walt. exalt.

Separate Male & female flowers on the same plant.  
In the male flower the common covering is formed of a single roundish leaf a little hollowed

Leaf none

Flower is exceeding small, cut into 5 sharp pointed segments.  
Stamens 5 fine threads scarcely to be perceived.

Female flower

Leaf one leaf like shaped, with about 6 teeth on the Brim  
flower leaf none

Pistil seed pod is contained within the cup, & falling it. Styles are two small threads. Tip plain.

Seed Box is formed of the cup, is closed at top, & with 6 teeth set in a ring round the top & a short Pin in the middle.

Seed one roundish.

Stalk is rough & hairy & branched out alternately from the Axils of the leaves.

Leaves are placed alternately on the Stalk & Branches, they are doubly pinnated, the pinnae are placed oppositely on a middle rib, those at the bottom of the leaf are longest, & they grow gradually shorter towards the top, which ends in an odd one. These pinnae are again pinnated, that is are cut deep like the Teeth of a comb, the Teeth stand oppositely on a middle rib, which likewise ends in an odd one. The male flowers are yellow, they grow in long slender spikes on the Top of the Stalk & Branches, & hang downwards, from 12 to 20 of them together, and as one common covering, these common covering being numerous, compose the spike, and hang each from a foot stalk placed at their center, the female flowers grow single, or sometimes 2 or 3 together at the Axil of the leaves & sometimes at the bottom of the male flower spikes. This grow in dry Ground  
flower in August.



No. 157.

## Ambrosia artemisifolia

S'eparate Male & female flowers on the same Plant.

In the male flower the Common Covering is formed of a single roundish Leaf a little hollowed

*Cup* none

*flower* is exceeding small, cut into 5 sharp pointed Segments.

*Chives* 5 fine Threads scarcely to be perceived.

*Female flower*

*Cup* one Leaf Bell shaped, with about 6 teeth on the Brim

*flower Leaf* none

*Pistill* Seed Bud is contain'd within the Cup, & filling it. Styles are two small Threads. Tips plain.

*Seed Box* is form'd of the Cup, is closed at top, & with 6 teeth set in a ring round the top & a short Pin in the middle.

*Seed* one roundish.

*Stalk* is rough & hairy & branched out alternately from the Arm Pits of the Leaves.

*Leaves* are placed alternately on the Stalk & Branches, they are doubly pinnated, the pinna are placed oppositely on a middle Rib, those at the bottom of the Leaf are longest, & they grow gradually shorter towards the top, which ends in an odd one. These pinna are again pinnated, that is are cut deep like the Teeth of a Comb, the Teeth stand oppositely on a middle Rib, which likewise ends in an odd one. The male flowers are yellow, they grow in long slender Spikes on the Top of the Stalk & Branches, & hang downwards, from 12 to 20 of them together, under one common Covering, these common Covering being numerous, compose the Spike, and hang each from a foot Stalk placed at their Center, the female flowers grow single, or sometimes 2 or 3 together at the Arm Pits of the L'eaves & sometimes at the bottom of the male flower Spikes. This grow in dry Ground.

flower in August

Nº 157 Ambrosia



Nº 159. Helxine  
Ciss Tongue.



Nº 158 Urtica.



N<sup>o</sup> 104. *Distichlis Gnaphalium negandicum.*  
Everlasting or Indian Posy

The common covering is the principal part of this flower, it is of a conical shape, consisting of several rows, of whitish coloured scales, placed tile fashion.

The Receptacle is flat & naked.

The flowers in the Disk, are very small pipe shaped, the Throat cut into 5.

Chives & fine threads, Caps joined forming a hollow cylinder surrounding the Style.

Porkish seed head oval shaped, crowned with long down, Style a thread passing through the Pipe of the flower & Chives cylinder. Tip divided into two.

The Rays has no flower leaves, no Chives, but only naked Porkish, like those in the Disk.

Seeds small oval shaped, crowned with long down, set close on the top of the seed.

This begins to flower in the end of August, when the seeds are ripe, the common covering spreads open, & continues all Winter.

The stalk is hairy & branched out alternately.

Leaves many placed alternately on the stalk & branches without any stalk, they are about 6 times as long as they are broad, and about half as broad at bottom as in the middle, sharp pointed at top, with one Rib along the middle, are smooth & their edges entire.

The flowers are of a whitish colour, they grow in clusters on the top of the stalk & branches, & have a agreeable smell.

flow. Aug.

No. 164.

## Autumnal Gnaphalium margantaicum

### Everlasting or Indian Posey.

The common covering is the principal part of this flower, it is of a conical shape, consisting of several Rows, of whitish coloured Scales, placed Tile fashion

The Receptical is flat & naked.

The flowers in the Dirk, are very small pipe shaped, the Brim cut into 5.

Chives 5 fine threads, C'aps join'd forming a hollow cylinder surrounding the Style.

Pistill Seed Bud ovally shaped, crown'd with long down, Style a Thread passing through the Pipe of the flower Leaf & Chives cylinder. Tip divided into two.

The Rays has no flower Leaves, no Chives, but only naked Pistiles, like those in the Dirk.

Seeds small oval shaped, crown'd with long down, set close on the top of the Seed

This begins to flower in the end of August, when the Seed, are ripe, the common covering spreads open, & continues all Winter.

The Stalk is hairy & branched out alternately.

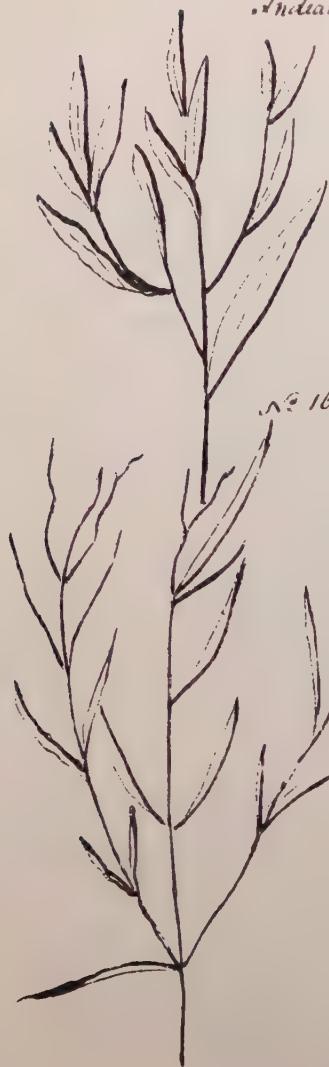
Leaves many placed alternately on the Stalk & Branches without Leaf Stalk, they are about 6 times as long as they are broad, and about half so broad at bottom, as in the middle, sharp pointed at top, with one Rib along the middle, are smooth & their edges entire

The flowers are of a Whitish colour, they grow in Clusters on the top of the Stalk & Branches, & have a agreeable smell.

flow. Aug.



N<sup>o</sup> 164 *Snaphalium*  
Indian Rose



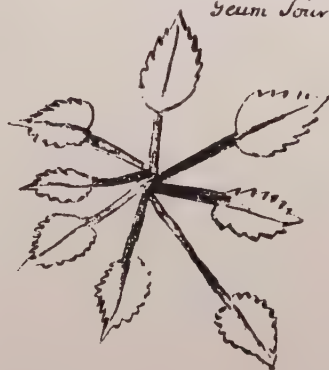
N<sup>o</sup> 165 *Hedysarum*



N<sup>o</sup> 166 *Aster*



N<sup>o</sup> 167 *Saxifraga*  
Scum Sournif.



N<sup>o</sup> 168 Growing on Mannusing Island.



N<sup>o</sup> 167. *Saxifraga* <sup>var. pennsylvanica</sup> *div.* Genus Tournefort.

Cup one leaf, cut half down, into 5 sharp pointed segments  
Flower 5 lanceol shaped leaves, set on the Brim of the Cup,  
alternately between the segments of the Cup.

Chives 10 Threads, set round the Brim of the Cup, half the  
length of the flower leaves, Caps are roundish.

Fertile Leaf Buds conical shaped, Styles short Tips roundish

The Stalk is single, round & hairy, without Branches, ex-  
cepting small flower Branches, at its top.

Leaves none excepting ground leaves, which grow in a  
cluster, round the bottom of the Stalk, lying flat on the  
ground, each having a flat foot stalk, they are roundish,  
some longer than they are broad, their upper end are notched  
like the teeth of a saw, & their under ends are entire  
they are thick, and very smooth.

The flowers are white, they have each a short foot stalk,  
& grow in clusters upon the tops of small Branches, that  
are placed alternately on the top of the Stalk, There is a  
small Owl shaped leaf, at the corner of every flower  
Branch. Some of these Plants have flowers, growing  
round the bottom of the Stalk, close to the ground  
leaves. Grow in dry Land.

Flower in Apperile.

No. 167.

*Saxifraga* Lin. *pensylvaniia*

*Geum* Tournefort.

*C'up* one Leaf, cut halff down, into 5 sharp pointed Segments

*Flower* 5 lancet shaped Leaves, set on the Brim of the Cup, alternately between the Segments of the Cup.

*Chives* 10 Threads, set round the Brim of the Cup, halff the length of the flower Leaves, Caps are roundish.

*Pistill Seed Buds* conical shaped, Styles short Tips roundish

The Stalk is single, round & hairy, without Branches, excepting small flower Branches, at its top.

Leaves none excepting Ground Leaves, which grow in a Cluster, round the bottom of the Stalk, lying flat on the ground, each having a flat foot stalk, they are roundish, some longer than they are broad, their uper end are notch'd like the teeth of a Saw, & their under ends are intire they are thick, and very smooth.

The flowers are white, they have each a short foot Stalk, & grow in Clusters upon the tops of small Branches, that are plaiced alternately on the top of the Stalk, There is a small Awl shaped Leaf, at the Corner of every Flower Branch. Some of these Plants have Flowers, growing round the bottom of the Stalk, close to the Ground Leaves. Grow in dry Land.

Flower in Apperile.

No 178

N. 3.

*Naphylea, Naphytodendron,*  
*Three Leaved Bladder Nut.*

Cup / Calix / one leaf, it is coloured, widest at bottom, & cut very deep, into 3 sharp pointed upright segments.

Flower leaves / Corolla Petals / 5 leaves set round the bottom of the cup. They are some longer than the cup, are rounded at top & taper narrow towards the bottom.

Chives / Stamina / 5, Awl shaped, of the length of the flower leaves, Caps <sup>(Anthers)</sup> oval shaped, set across.

Pistil / Seed Bud / Germen / pyramidal & hairy. Styles / Stylus / 3 Awl-shaped of the length of the Chives. Tip / Stigma / blunt.

Seed Box / Pericarpium / is a large blown up Bladder, it is 3 cornered about a third part longer, than it is thick, narrow at bottom & divided into 3 at top, it contains 3 Cells, that open inwardly, & each Cell two Seeds or Nuts.

Seeds / Semina / a roundish smooth Shell's Nut, a little pointed at one end, and with a Navel on one side of the point.

This is a large Shrub, branched out irregularly

leaves have each a short leaf stalk, & grow 3 together upon the top of long foot stalks, that are placed in pairs oppositely on the tops & joints of the Branches, they are about one third part longer than they are broad, broadest in the middle, & sharp pointed at both ends, but most so at top, they are smooth, have a Rib along their middle, with fibers, going from it towards the edges of the leaf, the edges are cut like the teeth of a Saw.

The flowers have each a long Foot stalk, & grow in Clusters upon a small Branch, that is placed between the leaf foot stalks. They are white.

Flower in May.



No. 178.

## Staphylea, Staphylodendron,

### Three Leaved Bladder Nut.

*Cup /Calix/* one Leaf, it is colour'd, widest at bottom, & cut very deep into 5 sharp pointed upright Segments.

*Flower Leaves /C'orolla Petala/* 5 Leaves set round the bottom of the Cup they are some longer than the Cup, are rounded at top & taper narrow towards the bottom.

*Chives /Stamina/* 5, Awl shaped, of the length of the flower Leaves, *C'aps /Antharae/* oval shaped, set accross.

*Pistill Seed Bud /Germen/* pyramidal & hairy. *Styles /Stylus/* 3 Awl shaped of the length of the Chives. *Tips /Stigma/* blunt.

*Seed Box /Pericarpium/* is a large blown up Bladder, it is 3 corner'd about a third part longer, than it is thick, narrow at bottom & divided into 3 at top, it contains 3 Cells, that open inwardly & each Cell two Seeds or Nuts. ✱

*Seeds /Semina/* a roundish smooth Shell'd Nut, a little pointed at one end, and with a Navel on one side of the point.

This is a large Shrub, branched out irregularly

Leaves have each a short Leaf Stalk, & grow 3 together upon the top of long foot Stalks, that are placed in pairs oppositely on the tops & joints of the Branches, they are about one third part longer than they are broad, broadest in the middle, & sharp pointed at both ends, but most so at top, they are smooth, have a Rib along their middle, with fibers, going from it towards the edges of the Leaf, the edges are cut like the teeth of a Saw.

The flowers have each a long Foot Stalk, & grow in Clusters upon a small Branch, that is placed between the Leaf foot Stalks. They are white.

Flower in May

N<sup>o</sup> 177. *Convolvulus*



N<sup>o</sup> 178. *Nephtylea*  
Bladder Nut.



N<sup>o</sup> 180. *Sisyrinchium*

N<sup>o</sup> 179. *Utricularia*



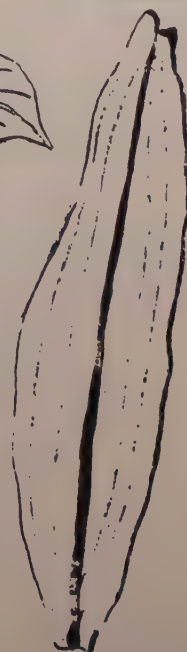
N<sup>o</sup> 181. *Stellaria*  
Common Chickweed



N<sup>o</sup> 182. *Cerastium*  
Mouse Ear  
Chickweed.



N<sup>o</sup> 183  
White Iris



N<sup>o</sup> 184. *Alyssum*  
False Flax



N<sup>o</sup> 187.

*Circaea*

*Enchanter's, Nightshade.*

Cup is composed of two ovally shaped, sharp pointed leaves, turned downwards, falling

Flower is two regular Heart shaped leaves, a little shorter than the cup

Chives two Threads of the length of the flower leaves, fine roundish

Pitch See the under the seat of the flower, it is Top shaped, a little flattened, and covered with short Bristles. Style a fine Thread near twice the length of the Chives. Top roundish.

The Stalk grows single & without Branches, except the flower Branches, which are placed in pairs oppositely & grow from the corners of the leaf stalks.

The leaves stand in pairs oppositely, upon long foot stalks, they are near twice as long as they are broad, broadest near the bottom rounded at bottom, & tapers to a narrow sharp point at top, they have a rib along their middle, and circular fibers placed oppositely, extending from the middle rib towards their edges, their edges are slightly waved.

The flowers are white, they grow in a kind of spikes on the top of the stalk, and all along the branches, this grows in dry ground.

Flower in July.

No. 187. II. I.

C'ircaea

E'nchanter's Nightshade

*C'up* is composed of two ovally shaped, sharp pointed Leaves, turned downwards, falling

*Flower* is two regular Heart shaped Leaves, a little shorter than the Cup

*Chives* two Threads of the length of the flower Leaves, C'aps roundish

*Pistill Seed Bud* under the Seat of the flower, it is Top shaped, a little flatten'd, and covered with short Bristles. Style a fine Thread near twice the length of the Chives. Tip roundish. The Stalk grows single & without Branches, except the flower Branches, which are placed in pairs oppositely & grow from the Corners of the Leaf Stalks.

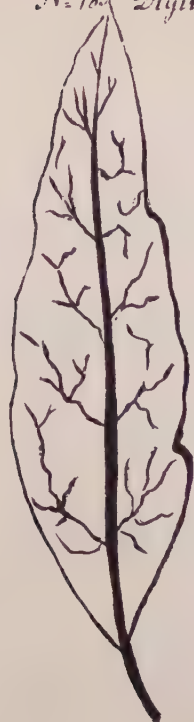
The Leaves stand in pairs oppositely, upon long Foot Stalks, they are near twice as long as they are broad, broadest near the bottom rounded at bottom, & tapers to a narrow sharp point at top, they have a Rib along their midle, and circular fibers placed oppositely, extending from the midle Rib towards their edges, their edges are slightly waved.

The flowers are white, they grow in a kind of S'pickes on the top of the Stalk, and all along the Branches, this grow in dry ground

Flower in July.



Nº 185 *Digitaria*



Nº 186 *Iberis*  
*Candy Tuft.*



Nº 188 *Lysimachia*



Nº 189 *Silene*



Nº 187 *Circaea*  
*Enchanter's Nightshade*



N<sup>o</sup> 108.

N<sup>o</sup> 188. *Sysimachia* *ciliata*?  
C. 1

Cup cut into 3 lance shaped segments, containing

Flower one leaf, spread open & divided into 5 roundish, some with pointed segments

Chives 5. Threads, not half so long as the flower stalk, set up  
it inclining towards each other, Rays as long as the Chives  
upright

Pink Lead globular, Type a Threads longer than the Insides  
Type plain.

Seed Box is globular, composed of 5 Valves, & containing one Cell. Receptacle is globular, & deeply pitted.

Seeds about 10, they are of an oval & curved shape.

Stalks Many grows from one foot, they are branched out oppos.  
from the corners of the leaves.

Leaves stand in pairs oppositely, except the uppermost &c, which form a cross, sometimes there are 8 or 12 of the uppermost leaves, the stand in crosses one above another, they have all hairy <sup>soft</sup> hairs that are about a third part as long as the leaf. The leaves are about twice as long, as they are broad, broadest near the bottom & rounded, but sharp pointed at top, they have one vein along the middle, with circular fibers, going from it towards the edges of the leaf, the leaves are smooth, their edges inter-

The flowers have each a long foot stalk, & grow 4 together (for a brood) at the same joint with the upper leaves, that stand in 2's, one flower stalk lying along each leaf, & the flower hanging downwards.

Root is creeping, is about the thickness of a Goose Quill, & of a  
resish colour, it sends out many tufts of small branched  
They grow in wet ground, are yellow &

Flowers July & August.

The flowers fall without weathering, whereas those of N. 70 & 78 wither & dry upon the plant.

No. 188.

## *Lysimachia ciliata* ? L.

*C'up* cut into 5 lancet shaped Segments, continuing

*Flower* one Leaf, spread open & devided into 5 roundish, some wath pointed Segments

*Chives* 5 Threads, not halff so long as the flower Leaf, set up it inclining towards each other, C'aps as long as the Chives uprigh

*Pistill Seed Bud* globular, Style a Thread, longer than the Chives Typ plain.

*Seed Box* is globular, composed of 5 Valves, & containing one Cell, Receptical is globular, & deeply pited.

*Seeds* about 10, they are of an ovally 3 corner'd shape

*Stalks* Many grows from one Root, they are branched out opposi from the Corners of the Leaves.

*Leaves* stand in pairs oppositely, except the upermost 4, which fo a Cross, sometimes there are 8 or 12 of the upermost Leaves, th stand in Crosses one above another, they have all hairy Leaf foot Sta that are about a third part as long as the Leaf. The Leave are about twice as long, as they are broad, broadest near the bottom & rounded, but sharp pointed at top, they have one Ri along the midle, with circular fibers, going from it toward the edges of the Leaf, the Leaves are smooth, their edges intir

The flowers have each a long foot Stalk & grow 4 together/for a Cross/ at the same joint with the uper Leaves, that stand in Crosses, one Flower Stalk lying along each Leaf, & the flower hang downwards.

*Root* is creeping, is about the thikness of a Goose Quil, & a p redish colour, it sends out many tufts of small branched fu

They grow in wet ground, are yellow &

flower July & August.

The flowers fall without weathering, whereas tchose of N 70 & 78 wether, & dry upon the Plant.

N<sup>o</sup> 19.) Chelone Pontederac

Cup is composed of 8 unequal, hollow, ovally shaped leaves, placed tile fashion

Flower one leaf, a bellied Pipe, the under side of it is flat, and the upper side is arched, the mouth is cut into two, the upper lip is whole & cut straightly, the under lip is turned a little downwards, & is cut into 3 roundish segments, the inside of the under lip is bearded.

Chives 4, two of them are shorter, they are blunt shaped and hairy, inserted into the Pipe of the flower. Caps large covered with Wool & sticking to each other.

Besides these, there is a pin, that is like a 5 short Chive, placed in a Row with the Chives & about one third as long, it has no Cap.

Pith The pith pyramidal, like a thick thread, bend, and a little longer than the chives, lying along the inner lip. The plain cover of the seed is an oval shaped Box, with two furrows along it, and the top a little pointed, it is composed of 4 Valves, & contains two seeds,

Seeds are numerous roundish & flat, with a thin membranaceous Border round them. Each of the Seed is very large, roundish, fleshy & free with two deep furrows, the seeds are placed tile fashion on it & shoot is composed of many thick fibers.

Stalk, several grow from one Root, without Branches, they are four square, with a hollow along each side

Leaves are placed in pairs oppositely, with scarcely any foot stalks, they are about 4 times as long, as they are broad, broadest a little below the middle, & sharp pointed at both ends, they have one rib along the middle, with many fibers, branching out from it towards the edges the edges are cut like Saw teeth

The flowers are large & white, only that the lips are of a redish colour, they grow in a short Spike on the top of the Stalk; are placed in 4 rows, a row on each side of the Stalk & stand very close; They grow in Wet ground

Flowers in September.



No. 199.

## C'helone

### Pentstemon

*C'up* is composed of 8 unacqual, hollow, ovally shaped Leaves, placed Tile fashion

*Flower* one Leaf, a bellied Pipe, the under side of it flat, and the uper side is arch'd, the mouth is cut into two, the uper Lip is whole & cut slantingly, the under Lip is turn'd a little downwards, & is cut into 3 roundish Seg'ments, the inside of the under Lip is bearded.

*Chives* 4, two of them are shorter, they are Awl shaped and hairy, inserted into the Pipe of the flower. C'aps large cover'd with Wool & stiking to each other.

Besides these, there is a pin, that is like a 5 short Chive, placed n a Row with the Chives & about one third as long, it has not C'ap.

*Pistill* Seed Bud pyramidal, Style a thick Thread, bent, and a little longer than the Chives, lying along the uper L'ip. Tip plain

*Cover of the Seed* is an oval shaped Box, with two furrows along it, and the top a little pointed, it is composed of 4 Valves, & contains two Cells,

*S'eeds* are numerous roundish & flat, with a thin membranacious Border round them. Seat of the Seed is very large, roundish, flushy & free with two deep furrows, the Seed are placed Tile fashion on it.

*Root* is composed of many thick fibers.

*Stalk*, several grow from one Root, without Branches, they are four, square, with a hollow along each side

*Leaves* are placed in pairs oppositely, with scarcely any foot Stalks, they are about 4 times as long, as they are broad, broadest a little below the middle, & sharp pointed at both ends, they have one Rib along the middle, with many fibers, branching out from it towards the edges the edges are cut like Saw teeth

The flowers are large & white, only that the Lips are of a redish colour, they grow in a short Spike on the top of the Stalk, are placed in 4 rows, a row on each side of the Stalk & stand very close; They grow in Wet Ground

Flower in September.

Nº 197.



Nº 199  
Chelone



Nº 198



Nº 200. *Sisyllaria*



N<sup>o</sup> 214.

*Solidago*

Another species of the Golden Rod  
distinguished by the Common covering

Common covering is composed of many lanceol shaped leaves, placed *Pis* fashion, their upper ends turned round downwards, whereas in all the species before described the scales lay flat.

Flowers about 30 in the Disk, and 15 in the Rays

Seeds are longer than in the other species of *Solidago*, & of a very dark brown colour

Stalk is stiff, & corned, without branches.

Leaves are placed alternately, they are about 3 times as long as they are broad, broadest in the middle, and sharp pointed at both ends, they have one rib along the middle, & fibers going from it towards the edges. The edges are finely cut like Saw Teeth, sometimes the edges are entire.

The flowers grow in the same manner as N<sup>o</sup> 202, but these are sometimes more properly small branches at the Axillary Pits of the leaves, than clusters.

Besides these 5 species of the *Solidago* we have a 6<sup>th</sup>, distinguished from N<sup>o</sup> 215 only by the leaves, they are about four times as long as they are broad, broadest in the middle & sharp pointed at both ends, have one rib along the middle & small fibers on each side, the edges are cut like very sharp Saw Teeth. The stalk of this is very rough

flow. Lips

No. 214. XIX.

## S'olidago

### Another S'pecies of the Golden Rod

*distinguished by the C'ommon covering*

*C'ommon covering* is composed of many lancet shaped Leaves, placed Tile fashion, their uper ends turn'd round downwards, whereas in all the S'pecies before discribet the S'cales lay flat.

*Flowers* about 30 in the Disk, and 15 in the Rays

*Seeds* are longer than in the other Species of Solidago, & of a very dark brown colour

Stalk is stiff, & corner'd, without Branches.

Leaves are placed alternately, they are about 3 times as long as they are broad, broadest in the midle, and sharp pointed at both ends, they have one Rib along the midle, & fibers going from it towards the edges. The edges are finely cut like Saw Teeth, sometimes the edges are intire

The flowers grow in the same manner as No. 202, but these are sometimes more properly small Branches at the Arm Pits of the Leaves, than Clusters.

Besides these 5 S'pecies of the S'olidago we have a 6, distinguished from No 95 only by the Leaves, they are about four times as long as they are broad, broadest in the midle & sharp pointed at both ends, have one Rib along the midle & small fibers on each side, the edges are cut like very sharp Saw Teeth. The Stalk of this is very rough

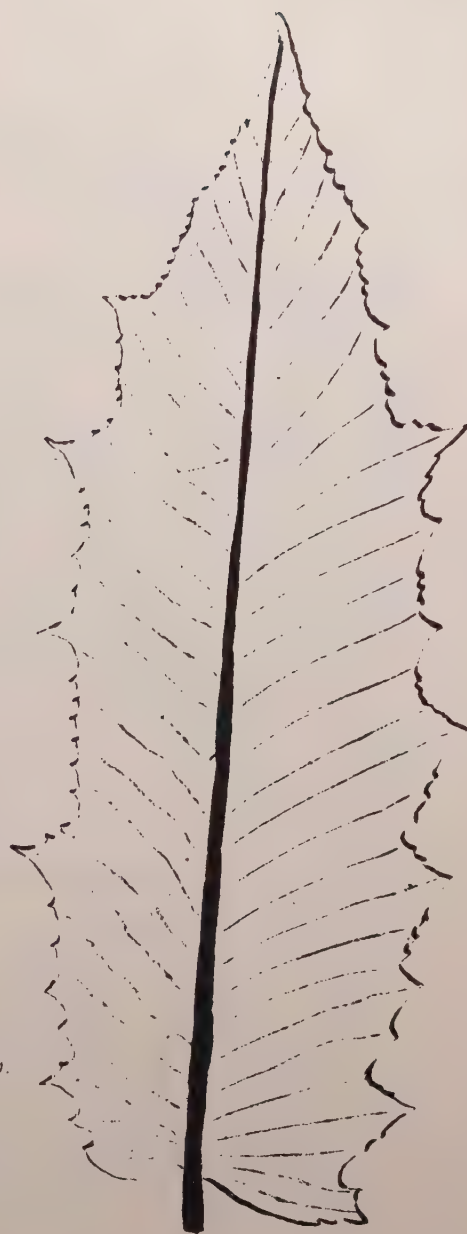
flow. S'ept.



№ 22 *Helianthus*



№ 213 *Cacalia*



№ 14 *Andropogon*



N<sup>o</sup> 232.

*Hepatica*  
Liver Wort

XIII. - 1830.

Cups of the flower is a Cup, formed of 3 oval leaves, they are hairy on the back, and are placed at a little distance below the seat of the flower leaves, and continue.

Corolla consists of 6 ovally shaped leaves, they are narrow at bottom and a little larger than the Cup & are spread out.

Stamens are numerous fine threads of unequal length, near 30 in number and are seated on the seat of the flower, the faps are roundish and double.

Pistils the Seed Pods, are numerous about 15 in Number, they are oblong & bent, and are covered with fine hairs. No styles. The tips are small crooked tips.

Root is composed of small fibers

Leaves there are 3 Root leaves, each single upon a long foot stalk, they are of a roundish figure a little broader than long & are divided into 3 roundish Scallops. The edges of the Scallops, are entire, the leaves are stiff & have bristly hairs on both sides. Directly above the seat of the Root leaf stalks, is a spathe composed of 4 thin skinny whitish leaves, that surround the bottom of the bottom of the flower stalks, & the other leaf stalks. These leaves put out after the flowers are fallen.

The flowers have each a long naked hairy stalk, twice the length of the Root leaves stalks, they are blue, grow in Dry ground

Flower in March & April.

No. 232. XIII.

## Hepatica

### Liver Wort

*C'over of the flower* is a C'up, form'd of 3 oval L'eaves, they are hairy on the back, and are placed at a little distance below the Seat of the flower Leaves, and continue.

*Flower* consists of 6 ovally shaped Leaves, they are narrow at bottom and a little longer than the Cup & are spread out.

*Chives* are numerous fine Threads of unequal length, near 30 in number and are seated on the Seat of the flower, the Caps are roundish and double.

*Pistills* the Seed Buds, are numerous about 15 in Number, they are oblong & bent, and are cover'd with fine hairs. No Styles. The Tips are small crooked Pips.

*Root* is composed of small fibers

*Leaves* there are 3 Root Leaves, each single upon a long foot Stalk, they are of a roundish figure a little broader than long & are divided into 3 roundish S'callops, the edges of the S'callops, are intire, the L'eaves are stiff & have bristly hairs on both sides. Directly above the Seat of the Root Leaf Stalks, is a Spatha composed of 4 thin skinny whitish Leaves, that surround the bottom of the bottom of the flower Stalks, & the other Leaf Stalks. These Leaves put out after the flowers are fallen.

The flowers have each a long naked hairy Stalk, twice the length of the Root Leaves Stalks; they are blue, grow in Dry Ground

Flower in March & Aprill.

Nº 226. *Chenopodium*  
Lambs Quarter



Nº 227. *Chenopodium*



Nº 227



Nº 229. *Solidago*

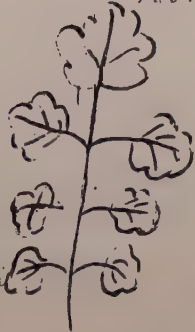
Nº 228. *Solidago*  
Golden Rod



Nº 230. *Solanum*  
Common Nightshade



Nº 231. *Sagittaria*  
Arrow Ariffo



Nº 223. *Sanguinea*  
Blood Root



Nº 232. *Hepatica*





N<sup>o</sup> 233.

*Sanguinaria*  
*Blood Root*

Cup none

Flower is composed of 8 ovally shaped leaves, spread open, they are bluntly pointed at both ends, the 4 inner leaves are narrower than the 4 outer ones, and placed alternately.

Leaves are numerous, about 30 flattened. Pinnate, of unequal length the longest are but half the length of the flower leaves, the Cup are oval shaped, flat & erect.

Pitch is the length of the longest leaves, the Seed Pod is oval shaped, & a little flattened. No Style, the Tip is thick, & divided into two.

Cover of the seed is a long Box, sharp pointed at both ends, containing one seed.

Seeds are numerous, round & smooth.

Stalks are two in number, the one supporting the flower, & the other a single root they are round & smooth, and of a redish colour,

Leaf is of a roundish shape, deeply gash'd in from the bottom nearly to the center, at which place it is fixed to the stalk, the edges are cut near half way to the center, into 5 or 6 blunt segments, and the edges of each segment, is irregularly scalloped, it has many fibers of a redish colour, branching out from the center to the leaf towards the edges.

The flower is white & grows single on the top of a naked stalk.

This grows in moist ground

Flowers in April.

No. 233.

## S'anguinaria

### Blood Root

*Cup* none

*Flower* is composed of 8 ovally shaped L'eaves, spread open, they are bluntly pointed at both ends, the 4 inner Leaves are narrower than the 4 outer ones, and placed alternately.

*Chives* are numerous, about 30 flatten'd Threads of unacqual length the longest are but halff the l'ength of the flower Leaves, the Cup are oval shaped, flat & erect.

*Pistile* is the length of the longest Chives, the Seed Bud is oval shaped, & a little flatten'd. No Style, the Tip is thick, & devided into two.

*C'oves of the Seed* is a long Box, sharp pointed at both ends, containing one Cell.

*Seeds* are numerous, round & smooth.

*Stalks* are two in number, the one supporting the flower, & the other a single Leaf they are round & smooth, and of a redish colour,

*Leaf* is of a roundish shape, deeply gash'd in from the bottom nearly to the Center, at which place it is fix'd to the Stalk, the edges are cut near halff way to the center, into 5 or 6 blunt Segments, and the edges of each Segment, is irregularly scallop'd, it has many fibers of a redish colour, branching out from the Center to the Leaf towards the edges.

The flower is white & grows single on the top of a naked Stalk.

This grows in Moist Ground

flower in Aprile.

N<sup>o</sup> 234.

Althaea  
Martha Marygold

Form of the flower

Flower consists of 5 broad ovally shaped leaves, spread out  
Petals are very numerous Threads, red on the back of the flower, half  
the length of the flower leaves. Sepals are oval shaped flattened & erect  
Pistils the Seed Pods are in number from 3 to 11, they are a little longer  
than the Petals, bellied & flattened, bent straight on the inner side  
No Style, the Tip is blunt a little bent.

Form of the Seed is formed into several separate Rows, about 10 in  
number, sometimes fewer, they are somewhat half Moon shaped  
rounded on the inner side, and united together at bottom, each Row  
is formed of one Valve, opening inwardly, & containing one Seed.  
Seeds are ovally shaped, & about 10 in Number

Leaf of the Seeds is a line along each side of the seam of the  
Valve, with 5 seeds adhering to each line.

Stalks many grow from one Root, they are thick & tender, are first  
divided into two Branches, & each of these Branches, are subdivided  
once or twice again.

Leaves grow single one at each division of the Branches, the lower  
leaves have moderately long leaf stalks, then of the upper ones  
grow gradually shorter, the leaves are Heart shaped, deeply  
lobbed in a bottom, & rounded at top, are soft & smooth, and  
the edges are slightly scalloped, they have many veins, ex-  
tending from the top of the leaf stalk, like Rays from a  
center and branching out.

This Plant grows in Wet Meadows, is near a foot high, the  
flowers are of a bright yellow colour, & stand on the tops of  
the Branches

Flowers in April & May

No. 234. XIII.

## Caltha

### Marsh Marygold

*Cover of the flower none*

*Flower* consists of 5 broad ovally shaped Leaves, spread out

*Chives* are very numerous Threads, set on the Seat of the flower, half the length of the flower Leafes. Caps are oval shaped flatten'd & erect

*Pistill* the Seed Buds are in number from 3 to 11, they are a little longer than the Chives, bellied & flattend, but straight on the inner side  
No Style, the Tip is blunt a little bent.

*Cover of the Seed* is form'd into several separate Boxes, about 10 in number, sometimes fewer, they are somewhat halff Moon shaped rounded on the inner side, and united together at bottom, each Box is formed of one Valve, opening inwardly, & containing one Cell.

*Seeds* are ovally shaped, & about 10 in Number

*Seat of the Seeds* is a line along each side of the seem of the Valve, with 5 Seeds adhering to each line.

*Stalks* many grow from one Root, they are thick & tender, are first divided into two Branches, & each of these Branches, are subdivided once or twice again.

*Leaves* grow single one at each division of the Branches, the lowest Leaves have moderately long Leaf Stalks, these of the uper ones grow gradually shorter, the Leaves are Heart shaped, deeply hollowed in a bottom, & rounded at top, are soft & smooth, and their edges are slightly scalloped, they have many fibers, extending from the top of the Leaf Stalk, like Rays from a Center and branching out.

This Plant grows in Wet Meadows, is near a foot high, the flowers are of a bright yellow colour, & stand on the tops of the Branches

Flowers in Apprile & May



No 236.

Pl. 1.  
Erythronium

Dogs Tooth

up now

Flower consists of 6 long ovally shaped, bluntly pointed leaves, placed in a double order, alternately, the three innermost, are nearly erect, & have a raised line, along the middle of each, & a little wing on each side near their bottom, turned inwards. the top of the 3 outward leaves, turn back downwards, & they have no raised line nor wings.

Leaves are 6, broad, flattened, sharp pointed threads, some more than half as long as the flower leaves; the Stems are very long & erect.

With the seed pod, is a top shaped, somewhat bluntly 3 cornered, the style is the length of the flower, cylindrical, but much thicker at top than at bottom & 3 cornered, the top is blunt, woolly & 3 cornered.

Cover of the seed is a Box of a bluntly 3 cornered ovally figure, narrow at bottom, it is composed of 3 Valves, & contains 3 fells, the partition of the fells open at the Axis of the Box, & is united, along the mid of each Valve.

Seeds are about 8 or 10, in a fell, placed in two rows, they are half Moon shaped, thicker at one end than the other.

The Lead of the seed is a line along each side of the partition of the fells close at the Axis of the Box.

Stalk is naked, round, smooth, tender, & about 6 inches high, carrying a single flower the top of the stalk, turns round, so that the flower hangs downwards.

Leaves are two in number, and grow at the bottom of the stalk, they are near as long as the stalk, & about an inch broad, are broadest in the middle, sharp pointed at top, ending in a narrow hollow neck at bottom. they are thick, soft & smooth & their edges are entire, they are of a bluish green colour, with dark brownish spots all over their surface. This Plant grows in wet ground, the flower is yellow, with purple specks on the inside of the leaves.

The first appearance this Plant makes early in the Spring, is by sending up a single leaf. soon after another leaf rises through the hollow back of the first leaf then the stalk rises through the hollow back of the second leaf, & this leaf comes as a sheath or covering to it, & never before it opens.

Flowers in April

## Erythronium

### Dogs Tooth

*C'up* none

*Flower* consists of 6 long ovally shaped, bluntly pointed L'eaves, placed in a double order, alternately, the three innermost, are nearly erect, & have a raised line, along the middle of each, & a little Wing on each side near their bottom, turn'd inwards, the top of the 3 outward Leaves, turn back downwards, & they have no raised Line nor Wing.

*C'hives* are 6, broad, flatten'd, sharp pointed Threads, some more than half as long as the flower Leaves; the C'aps are very long & erect.

*Pistill* the Seed Bud, is Top shaped, somewhat bluntly 3 corner'd, the Style is the Length of the Chives, cylindrical, but much thicker at top than at bottom & 3 corner'd, the Tip is blunt, wooly & 3 corner'd.

*Cover of the Seed* is a Box of a bluntly 3 cornered ovally figure, narrow at bottom, it is composed of 3 Valves, & contains 3 Cells, the partition of the Cells open at the Axis of the Box, & is united, along the middle of each Val

*Seeds* are about 8 or 10, in a C'ell, placed in two Rows, they are half Moon shaped, thicker at one end than the other.

*The Seat of the Seed* is a Line along each side of the partition of the Cells close at the Axis of the Box.

*Stalk* is naked round, smooth, tender, & about 6 inches high, carrying a single flower the top of the Stalk, turns round, so that the flowers hangs downwards.

*Leaves* are two in number, and grow at the bottom of the Stalk, they are near as long as the Stalk, & about an Inch broad, are broadest in the middle, sharp pointed at top, ending in a narrow hollow neck at bottom they are thick soft & smooth & their edges are intire, they are of a bluish green colour, with dark browish spots all over their surfac

This Plant grows in Wet ground, the flower is yellow, with purple Speck's on the inside of the Leaves

The first appereance this Plant makes early in the Spring, is be sending up a single Leaf sometime after another Leaf rises through the hollo Neck of the first Leaf then the Stalk rises through the hollow Neck of the second Leaf, & this Leaf serves as a Sheath or covering to th flower before it opens.

flowers in Apprile.

N<sup>o</sup> 237.

Paris

The three leaved purple flowered Herb Tulove  
over of the flower is a bell shaped cup, formed of 3 ovally sharp pointed  
leaves marked with several veins along them continuing

Flower is likewise bell shaped, composed of the same number of leaves  
of the same figure, & marked with like veins as the cup, but are  
larger, than the cup. leaves, and their tops are turned back downwards  
There are 6 short, thick flattened threads, the faps are extended from  
the top down each edge of the leaves, for about  $\frac{2}{3}$  of their length.

Like the seed pod, is large, somewhat pyramidal, 6 cornered, with 6  
furrows, 3 of these furrows are deeper than the others, alternately,  
the styles are 3 thick threads, about the length of the furrows  
& turned round backwards, the tips are plain.

Root is tuberous, thick & short, sending out very long fibres

Stalk is thick round & smooth

Leaves are 3 in number, placed at the top of the stalk, without foot  
stalks, & spreading round the stalk, they are of a roundish figure  
rather broader than they are long & a little pointed at both ends  
are smooth & have 3 large fibres extending from one point to  
the other & other smaller fibres, branching all through the leaf  
the edges are entire.

This plant grows in the meadows, is about 8 inches high, the  
flower grows single, on the top of the plant, with a thick foot  
stalk that turns round, & the flower hangs downwards, &  
continues in that position till the seed is ripe. The flower  
is large & of a dark crimson colour

There is another species of Paris, that differs in nothing from  
this but that it is small in every part & the flowers are  
white

Flowers in April.

No. 237.

## Paris

### The three Leaved purple flower'd Herb Trulove

*C'over of the flower* is a Bell shaped Cup, form'd of 3 ovally sharp pointed Leaves, marked with several Lines along them. Continuing

*Flower* is likewise Bell shaped, composed of the same number of Leaves of the same figure, & marked with like Lines as the Cup, but are larger, than the Cup. Leaves, and their tops are turned back downwards

*Chives* are 6 short, thick flatten'd Threads, the Caps are extended from the top down each edge of the Chives, for about  $\frac{3}{4}$  of their length.

*Pistill* the Seed Bud, is large, somewhat pyramidal, 6 corner'd, with 6 furrows, 3 of these furrows are deeper than the other's, alternately, the Styles are 3 thick Threads, about the length of the Chives & turn'd round backwards, the Tips are plain.

*Root* is tuberous, thick & short, sending out very long fibers

*Stalk* is thick round & smooth

*Leaves* are 3 in number, placed at the top of the Stalk, without foot Stalks, & spreading round the Stalk, they are of a roundish figure rather broader than they are long & a little pointed at both ends are smooth & have 3 large fibers extending from one point to the other. & other smaller fibers, branching all through the Leaf the edges are intire

This Plant grows in the Meadows, is about 8 inches high, the flower grows single, on the top of the Plant, with a thick foot Stalk that turns round, & the flower hangs downwards, & continues in that position till the Seed is ripe. The flower is large & of a darck crimson colour

NB There is another S'pecies of Paris, that differs in nothing from this but that it is small in every part & the flowers are white.

flowers in Apperill.



Nº 22 *Caltha*  
Marsh Marigold



Nº 23 *Caltha*



Nº 24 *Erythronium*  
Dog's Tooth

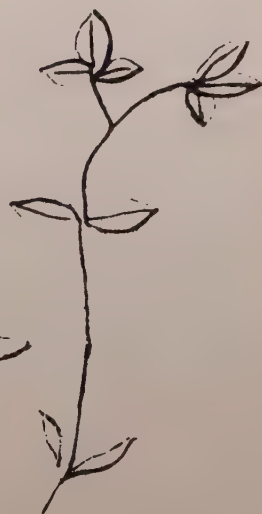
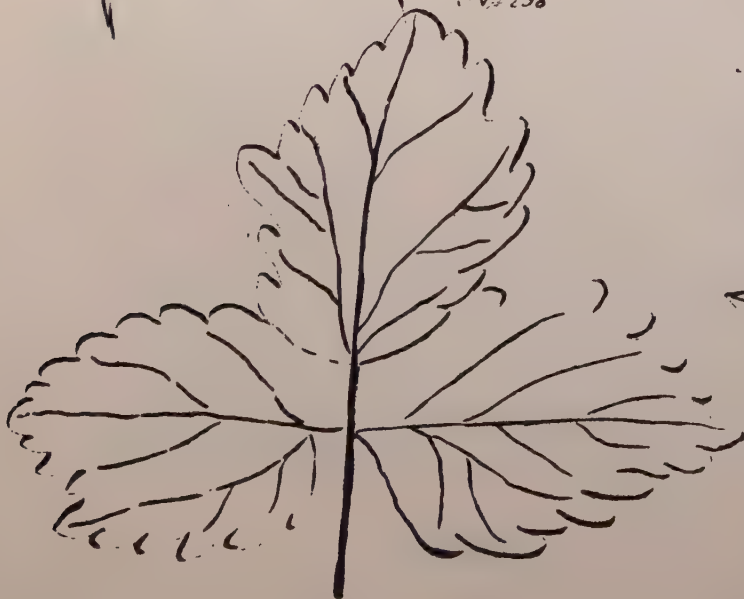


Nº 238

Nº 237 *Saxifraga*  
Saxifrage



Nº 239 *Chrysanthemum*



N<sup>o</sup> 238.

*Dentaria nig. in Thracia.*

cup of the flower is a cup, composed of 4 narrow ovally shaped leaves hollowed.

flower consists of 4 ovally leaves, twice the length of the cup, tapering narrow at bottom.

Stems are 3 in number, two of them which are shorter, than the others are the same length of the cup, they are all thick erect Stems, the cups are long, nearly erect forked at bottom, & their tops bend a little downwards.

Stalk is a little longer than the stems, the seed pod is cylindrical & little bellied, & half as long as the stems, the style is a smaller cylinder, the tip is blunt.

Root runs along the surface of the ground, is thicker than a goose's quill, and has at every half inch distance, thick short scales, it is exceedingly crisp & tender & very white. It sends up many stalks, some carrying both leaves & flowers, & others carrying only leaves. The stalks that carries the flowers has 3 leaves, & those which have <sup>no flowers</sup> 3 leaves upon the top of the stalk.

Leaves are ovally shaped about 1/2 part longer than they are broad, broadest about the middle, they have one straight fiber along the mid. & smaller ones branching out from each side, the edges of the leaves are cut into pretty large unequal scallops. The leaves on the flower stalks grow 3 together upon a long foot stalk, & these foot stalks are placed oppositely a little above the middle of the stalk, some have 3 branches, placed alternately each with 3 leaves.

This plant grows in meadows, is some more than half a foot high. The flowers are white, & grow in a short spike on the top of the stem, each with a foot stalk of about 1/3 of an inch long.

Flowers in April.

No. 238. XV.

## Dentaria Rig. Luthraea Lin

*C'over of the flower* is a Cup, composed of 4 narrow ovally shaped Leaves, hollowed.

*flower* consists of 4 ovally Leaves, twice the Length of the Cup, tapering narrow at bottom.

*Chives* are 6 in number, two of them which are shorter, than the others are the same length of the Cup, they are all thick erect Threads, the Caps are long, nearly erect forked at bottom, & their tops bent a little outwards.

*Pistill* is a little longer than the Chives, the Seed Bud is cylindrical a little bellied, & halff as long as the Chives, the Style is a smaller cylinder, the Tip is blunt.

*Root* runs along the surface of the Ground, is thicker than a goose-Quill, and has at every halff inch distance, thick short Scales, it is exceeding crisp & tender & very white. It sends up many Stalks, some carying both Leaves & flowers, & other carying only Leaves. The Stalks that carries the flowers has 6 Leaves, & those which have no flowers only 3 Leaves upon the top of the Stalk.

*Leaves* are ovally shaped about  $\frac{1}{4}$  part longer than they are broad, broadest about the midle, they have one straight fiber along the mid & smaller ones branching out from each side, the edges of the Leave are cut into pritty large unequal scallops. The Leaves on the flower Stalk grow 3 together upon a long foot Stalk, & there foot Stalks are placed oppositely a little above the midle of the Stalk; some have 3 Branches, placed alternately each with 3 Leaves.

This Plant grows in Meadows, is some more than halff a foot hig The flowers are white, & grow in a short Spicke on the top of the Stalk, each with a foot Stalk of about  $\frac{1}{3}$  of an Inch long

Flower in Apprile.

No 242.

*Mitella diphylla* L.

The American *Mitella* of Bourneford. with the leaves  
of the flower fringed

Lower of the flower is bell shaped, coloured & cut half down into 5 broad sh,  
pointed segments

Flower consists of 5 leaves with narrow Nails, inserted into the lip, at  
bracely between the segments, the upper part of the leaves, are ovally  
shaped, & cut deep into long narrow segments, fringed like.

Stamens are 10 very short fine threads, inserted into the sides of the lip,  
the tips are roundish.

Like the seed pod is roundish, no style, the tips are two, very short & blue  
Lower of the seed is a roundish box flattened side ways, & pointed at  
top it opens half down into two, & contains one seed.

Seeds are ovally shaped, pointed at one end, black & shining, they are seated  
in two furrows, about 6 in a furrow, near the bottom of the box at its  
opposite sides.

Root is small, tuberous & sends out many fibers

Stalk one, or sometimes two, grows from one root, without branches  
& but two leaves.

Leaves the ground leaves, have each a long hairs foot stalk, are heart  
shaped, sharp pointed, & about as broad as they are long, the fibers ca  
line from the top of the foot stalk like rays, & branch out, the  
edges are irregularly indented. Leaves on the stalk are placed oppo  
sely just below the spike of flowers, without root stalks, at  
are like the root leaves except that they are smaller & longer in  
proportion to their breadth than the root leaves, & are not heart  
shaped at bottom but rounded.

This plant grows in wet ground, between half a foot at a foot  
high. The flowers are white, have each a short foot stalk, and  
are placed alternately & thinly on the top of the stalk, in a  
kind of long spike.

Flowers in April.



No. 242. X. 2.

## Mitella dyphylla. L.

### The American Mitella of Tournefort

with the Leaves *of the flower fringed*

*Cover of the flower* is Bell shaped, colour'd & cut halff down into 5 broad sharp pointed Segments.

*Flower* consists of 5 Leaves with narrow Necks, inserted into the Cup, alternately between the Segments, the upper part of the Leaves, are ovally shaped, & cut deep into long narrow Segments, fringed like.

*Chives* are 10 very short fine Threads, inserted into the sides of the Cup, the Caps are roundish.

*Pistill* the Seed Bud is roundish, no Style, the Tips are two, very short & blunt

*Cover of the Seed* is a roundish Box flattened side ways, & pointed at top it opens halff down into two, & contains one Cell.

*Seeds* are ovally shaped, pointed at one end, black & shining, they are seated in two Clusters, about 6 in a Cluster, near the bottom of the Box at the opposite sides.

*Root* is small, tuberosous & sends out many fibers

*Stalk* one, or sometimes two, grows from one Root, without Branches & but two Leaves.

*Leaves* the ground Leaves, have each a long hairy foot Stalk, are heart shaped, sharp pointed, & about as broad as they are long, the fibers extend from the top of the foot Stalk like Rays, & branch out, the edges are irregularly indented. Leaves on the Stalk are placed oppositely just below the Spik of flowers, without Leaf Stalks, at are like the Root Leaves except that they are smaller & longer in proportion to their breadth than the Root Leaves, & are not heart shaped at bottom but rounded.

This Plant grows in Wet ground, between halff a foot at a foot high, the flowers are white, have each a short foot Stalk, and are placed alternately & thinly on the top of the Stalk, in a kind of long Spike.

Flowers in Aprill.

N<sup>o</sup> 240 *Snaphalium*



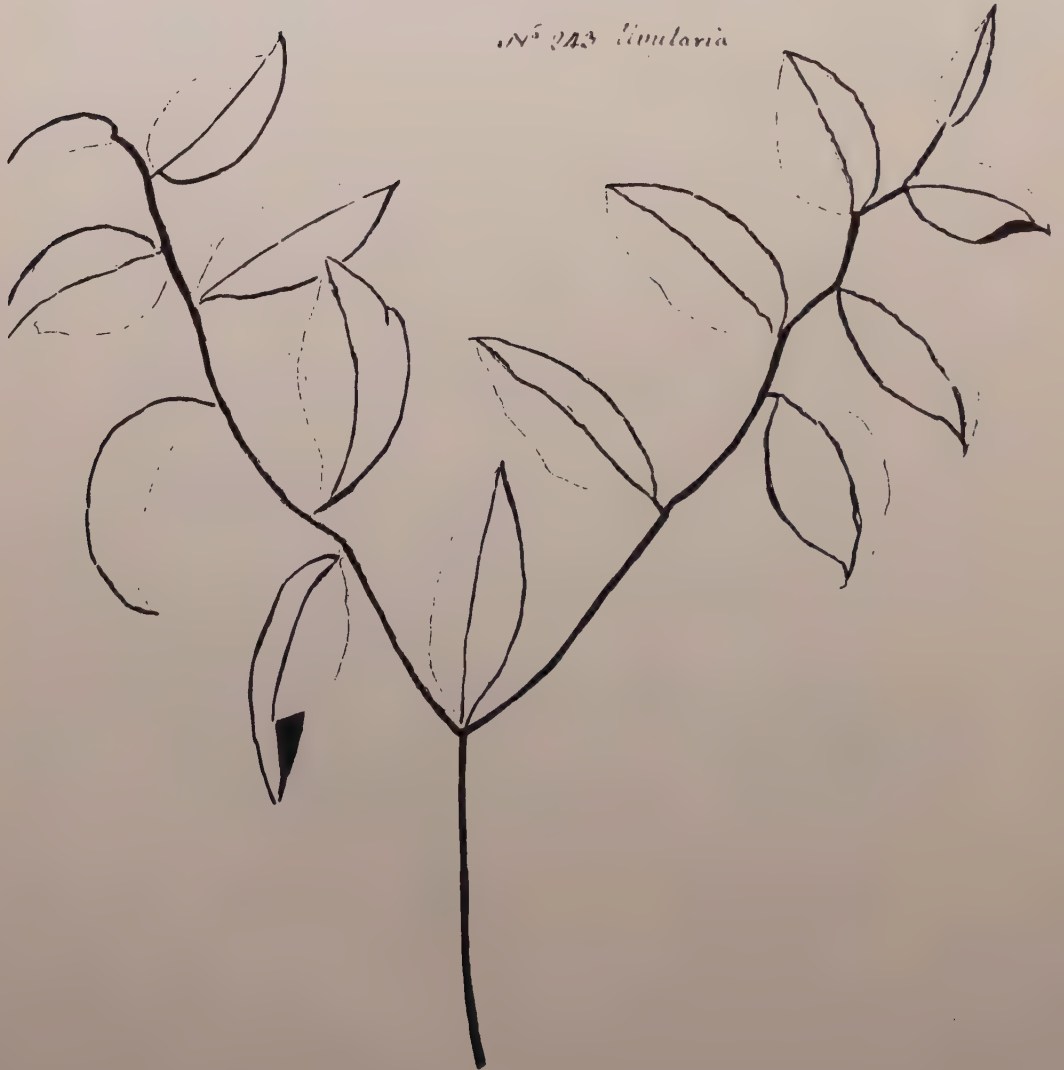
N<sup>o</sup> 241. *Tanax*



N<sup>o</sup> 242. *Ritcha*



N<sup>o</sup> 243. *Amularia*



N<sup>o</sup> 247.

11.11

*Asarum canadense*

Colts foot

Lower of the flower is a Bell shaped leathery Sep, formed of one leaf & colored, its Brim is divided into 3 erect segments, the top of each segment ends in a small P<sup>in</sup>, which is bent inwards, the Sep contains flower leaf above

Stamens are 12 in number, & are of a particular figure, much the shape of an S, the lower end is cylindrical, the middle part widens out, & they end in a sharp pointed crooked P<sup>in</sup>, the fgs are oblong & double & are fixed to the middle of the stamens, on one side

Pistils Seed Pod is contained within the substance of the bottom of the Sep, which is thick & fleshy, the Style is a thick short cylinder with 6 furrows along it, & the ridges between the furrows have each a line along them, the Tip is divided into 6 short blunt cylinders, bending a little outwards.

Lower of the seed is the Sep continued without undergoing any considerable change it contains 6 seeds

Seeds are ovally shaped & about 4 in each Sep.

Root creeps along the Surface of the Ground, & is near as thick as a Man's little finger

Leaves have each a thick rough foot stalk, about 4 inches long rising directly from the root, they are hollow, kidney shaped, some broader than they are long & a little pointed at top, are thick & smooth, have a few fibers, extending up from the top of the leaf stalk, like rays from a center, they branch out towards the edges of the leaf, & form scallions by joining upon one another, the edges are entire

This Plant grows in wet ground, much about the roots of old Trees, the flowers have each a very short foot stalk, but half an Inch or one Inch almost high, rising directly from the root, they are of a dark purpleish colour

Flowers in April & May.

No. 247. XI. I.

## Asarum canadense

### Colts foot

*C'over of the flower* is a Bell shaped Leathery Cup, formed of one Leaf & colour'd, its Brim is devided into 3 erect Segments, the top of each Segment ends in a small Pin, which is bent inwards, the Cup continues

*Flower Leaf* none

*Chives* are 12 in number, & are of a particular figure, much the shape of an S, the lower end is cylindrical, the midle part widens out, & they end in a sharp pointed crooked Pip, the Caps are oblong & double & are fixed to the midle of the Chives, on one side.

*Pistile Seed Bud* is contained within the substance of the bottom of the Cup which is thick & fleshy; the Style is a thick short cylinder with 6 furrows along it, & the ridges between the furrows have each a line along them, the Tip is devided into 6 short blunt cylinders, bending a little outwards.

*Cover of the Seed* is the Cup continued without undergoing any considerable change it contains 6 C'ells

*Seeds* are ovally shaped & about 4 in each Cell.

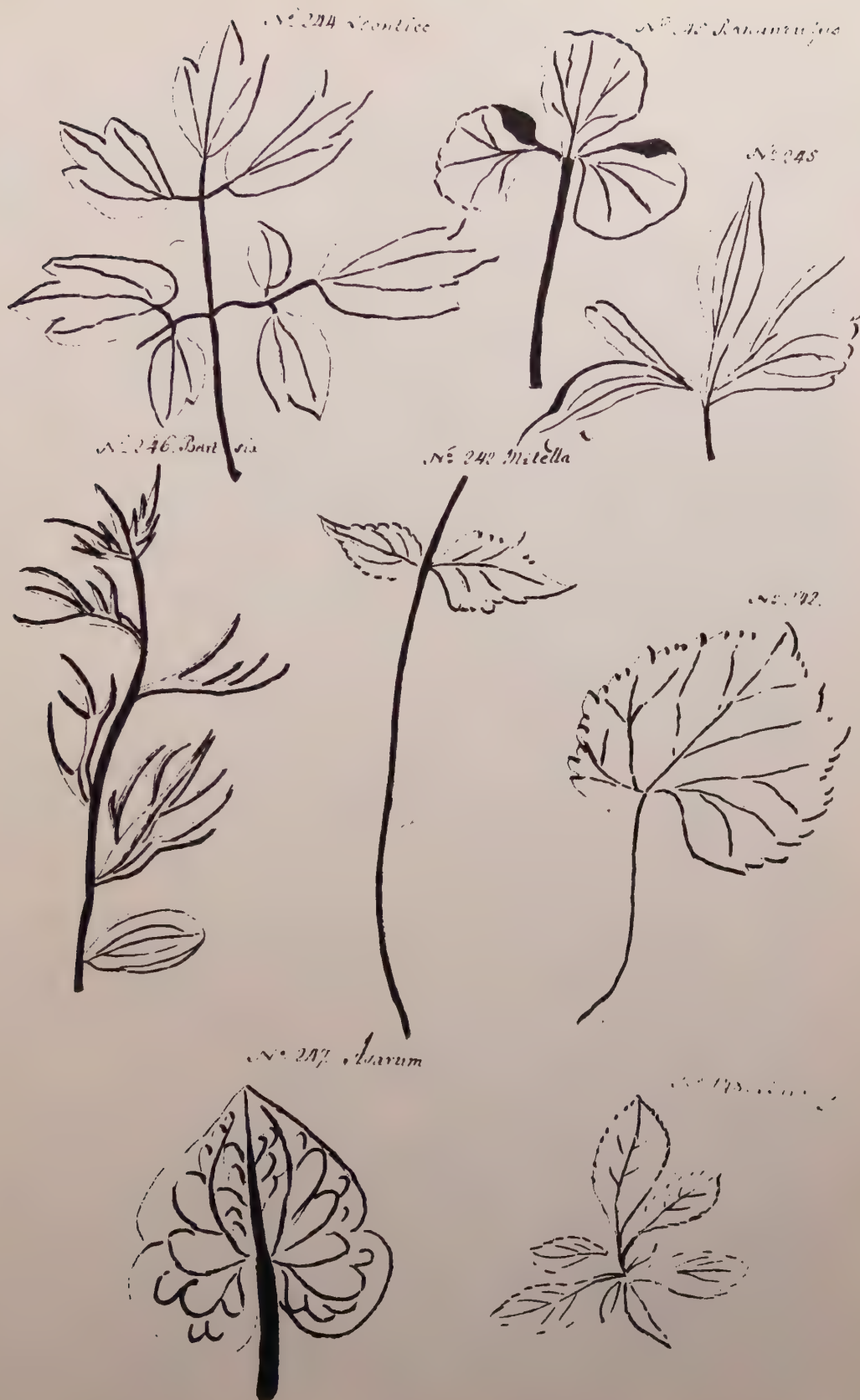
*Root* creeps along the Surface of the Ground, & is near as thick as a Man little finger

*Leaves* have each a thick rough foot Stalk, about 4 Inches long rising directly from the Root, they are hollow, Kidney shaped, some broader than they are long & a little pointed at top, are thick & smooth, have a few fibers, extending all from the top of the Leaf Stalk, like rays from a Center, they branch out towards the edges of the Leaf, & form scallops by joining upon one another, the edges are intire

This Plant grows in Wet ground, much about the Roots of old Trees, the flowers have each a very short foot Stalk, but halff an Inch or one Inch almost high, rising directly from the Root, they are of a dark purpleish colour

Flower in Apprile & May.





No. 249

IX. 24.  
Arum  
Three leaved

Common covering is one large leaf / or spathe / the inner half is like a sheath the two edges overlapping each other, & surrounding the flowers, the upper half spreads out, & the top bends downwards over the mouth of the sheath, the inside of the whole sheath is prettily coloured with dark brown & pale green streaks & the outside is streaked with a dark & pale green.

Flower leaves none

Flukes, the flaps is all that is perceivable, they are 3 in number, globular & stand in a cluster on the top of the seed pod sometimes there is one added to the number, & sometimes there is one less.

While the seed pod is cylindrical, & very short, there is no style nor tip the flaps of the flukes are in the place of them.

Fruit is a red smooth berry, of an irregular oval shape, not all alike containing one seed.

Seeds are generally 3 in number, sometimes but one or 2, they are roundish & pointed at one end.

Root is a round compressed Bulb, sending out many fibers, from a ring round the edge of the top, the Bulb has but one skin or coat round it.

Stalk grows single, is thick & smooth, is surrounded at bottom, with 2 thin skinny sheaths, one within the other, at about one third of the height of the plant, the stalk divides into two branches the one carrying the flower & the other the leaves.

Leaves are 3 in number, they stand together on the top of the branches without any stalk, they are about twice as long, as they are broad, broadest about the middle, & sharp pointed at both ends, they have one thick fiber along the middle, & many straight ones on each side of it standing upwards, the edges are entire.

This plant grows in wet ground, is about a foot high, the Perikles with the flukes on their tops grow many of them together, are placed in regular order, on the under part of a long Petiole, that stands upon the top of one of the branches, & is inclosed, within the common covering, the Petiole is about 3 inches long, the part of it, on which the flukes & Perikles are placed is thinner than the upper part, and they take up about one fourth part of the length of the Petiole, the upper naked part of the Petiole is very smooth, & is speckled with green and dark brown.

Flowers in May.

## Arum

### Three Leaved.

*C'ommon covering* is one large Leaf /or S'patha/ the under halff is like a Sheath, the two edges overlaping each other, & surrounding the flowers, the uper halff spreads out, & the top bends downwards over the mouth of the Sheath, the inside of the whole Leaf is prittily coloured with dark brown & pale green Streaks & the outside is streaked with a dark & pale green.

*Flower Leaves none*

*Chives*, the Caps is all that is perceivable, they are 3 in number, globular & stand in a Cluster on the top of the Seed Bud sometimes there is one added to the number, & sometimes there is one less.

*Pistill* the Seed Bud is cylindrical, & very short, there is no Style nor Tip the Caps of the Chives are in the place of them.

*Fruit* is a red smooth Berry, of an irregular ovally shape, not all alike containing one Cell.

*S'eeds* are generally 3 in number, sometimes but one or 2, they are roundish & pointed at one end.

*Root* is a round compress'd Bulb, sending out many fibers, from a ring round the edge of the top, the Bulb has but one Skin or Cote round it.

*Stalk* grows single, is thick & smooth, is surrounded at bottom, with 2 thin skinney Sheaths, one within the other, at about one third of the hight of the Plant, the Stalk devides into two Branches the one carrying the flower & the other the Leaves.

*Leaves* are but 3 in number, they stand together on the top of the branche without Leaf Stalks, they are about twice as long, as they are broad broadest about the midle, & sharp pointed at both ends, they have one thick fiber along the midle, & many streight ones on each side of it standing upwards, the edges are intire

This Plant grows in Wet ground, is about a foot high, the Pestills wit the Chives on their top grow many of them together, are placed in an regular order, on the under part of a long Pillar, that stands upon the top of one of the Branches, & is inclosed, within the common covering this Pillar is about 3 inches long, the part of it, on which the Chives & Pistills are placed, is thinner than the upper part, and they take up about one fourth part of the length of the Pillar, the upper neckid root of the Pillar is very smooth, & is speckled with green and dark brown.

Flowers in May.



Cover of the flower is double, formed of two faps, the outermost is small, formed of one leaf, cut into 3 ovally hollow segments. The inner one is composed of 5 very large, thick oval hollowed broad leaves, the whole fap containing.

Flower consists of 5 ovally leaves, some longer than the fap, they are drawn in narrow a little below the middle, at the narrow part of the leaf they are bent outwards, by the edge of the Stigma or top of the Style, and the top of the leaves, turns inwards over the top of the style.

Chives are very numerous Threads, about one third as long, as the lower leaves, the faps are very large, oval shaped, double & red seen.

Recept the Seed Pod is globular, the Style is a short cylinder, the Tip or Stigma is a large thin plate, of the same texture with the flower leaves, in the form of an Umbrella, covering the Seed Pod & Chives, it is 5 cornered, with a small gap, cut inwards from every corner, & a short Pin at the end of every gap, on the under side of the Plate, this plate is hollowed in concircularly between the corners, and the corners jut out between the flower leaves alternately. There are 5 raised lines, extended from the center of the plate, towards the corners, the Style & Tip continuing till after the Seed is ripe.

Cover of the Seed is a roundish Box, its out side is covered, with small globular bodies, like brown Sand, it is composed of 5 Valves & contains 5 seeds.

Seeds are numerous ovally shaped, pointed at one end, & flattened on one edge.

Leaf of the Seed is free from the sides of the Box, it is roundish with 5 deep furrows, that are hollowed in almost to the Axis.

Root is composed of thick fibres.

Stalk is moderately thick, round smooth naked, & grows about a foot high, it carries a single flower, its top turn downwards, so that the flower hangs with its top downwards, but when it is in Seed, the Stalk turns erect again.



Leaves all grow from the Root, with short stalks, they are of a proportion, which I difficult do describe, the principal part of the leaf is a hollow tube, near the stalk, widening towards the mouth, & behind the upper half of the mouth is cut straight off, the under half is extended, above an inch farther out in length, it widens out on each side & is rounded at a top, the sides of it turn up in such manner, as partly to cover the upper part of the mouth of the pipe, the inside of this part of the leaf is covered with short bristles, the other parts of the leaf are smooth, along the upper side of the pipe shaped part of the leaf is an erect stay, extended from the leaf stalk to the mouth of it, this it is of the same texture with the rest of the leaf, above an inch broad in the middle, & flaring off narrow at both ends. The whole leaf is stiff & moderately thick, with some red streaks & fibres through them. The whole leaf is about 6 inches in length, and the widest part of the pipe is about an inch & quarter in Diameter.

This Plant grows in Wet Ground, surrounded with a great deal of Moss with which the leaves are all covered over, except a little at their tops. The flower is large, near two Inches in Diameter the out side both of the leaf & flower leaves are of a dark red colour, the inside of the leaf, is of a yellowish green, & the inside of the flower leaves of a pale yellow, the top of the style is likewise of a pale yellow colour.

flowers in May

No. 264. XIII.

## S'aracena

*C'over of the flower* is double, formed of two Cups, the outermost is small, form'd of one Leaf, cut into 3 ovally hollow Segments. The inner one is composed of 5 very large, thick oval hollow colour'd Leaves, the whole Cup continues.

*Flower* consists of 5 ovally Leaves, some longer than the Cup, they are drawn in narrow a little below the middle, at the narrow part of the Leaf they are bent outwards, by the edge of the /Stigma/ or top of the Style, and the top of the Leaves, turns inwards over the Tip of the Style.

*Chives* are very numerous Threads, about one third as long, as the Flower Leaves, the Caps are very large, oval shaped, double & set across

*Pistill* the Seed Bud is globular, the Style is a short cylinder, the Tip /or Stigma/ is a large thin plate, of the same texture with the flower Leaves, in the form of an Umbrello, covering the Seed Bud, & Chives, it is 5 corner'd, with a small gash, cut inwards from every corner, & a short Pin at the end of every gash, on the under side of the Plate, this plate is hollowed in comicircularly between the corners, and the corners juts out between the flower Leaves alternately. There are 5 raised lines, extended from the Center of the plate, towards the Corners; the Style & Tip continuing till after the Seed is ripe.

*Cover of the Seed* is a roundish Box, its out side is cover'd, with small globular bodies, like brown Sand, it is composed of 5 Valves & contains 5 Cells.

*Seeds* are numerous ovally shaped, pointed at one end, & flattened on one edge

*Seat of the Seed* is free from the sides of the Box, it is roundish with 5 deep furrows, that are hollowed in almost to the Axis.

*Root* is composed of thick fibers

*Stalk* is moderately thick, round smooth naked, & grows about a foot high, it carries a single flower, its top turn downwards, so that the flower hangs with its top downwards but when it is in Seed, the Stalk stands erect again.

*Leaves* all grow from the Root, with short Leaf Stalks, they are of a v particular figure / difficult do discribe/ the principal part of the Leaf is a hollow Pipe small near the Stalk, widening towards the mouth, & bellied the upper halff of the mouth is cut straight off, the under halff is extended, above an Inch farther out in length, it widens out on each side & is rounded of at top, the sides of it turn up in such manner, as partly to cover the upper part of the mouth of the pipe, the inside of this part of the Leaf is cover'd with short Bristles, the other parts of the Leaf are smooth, along the uper side of the Pipe shaped part of the Leaf is an erect Wing, extended from the Leaf Stalk, to the mouth of t Pipe it is of the same texture with the rest of the Leaf, about an Inch broad in the midle, & sloping off narrow at both ends The whole Leaf is stiff & moderately thick, with some red Strea fibers through them. The whole Leaf is about 6 inches in length and the widest part of the Pipe is about an Inch & quarter in Diameter

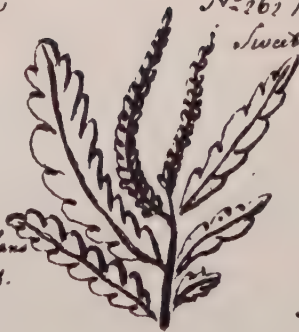
This Plant grows in Wet Ground, surrounded with a great dea of Moss with wich the Leaves are all cover'd over, except a little of their tops. The flower is large, near two Inches in Diameter the out side both of the Cup & flower Leaves are of a dark red colour; the inside of the Cup, is of a yellowish green, & the inside of the flower Leaves of a pale yellow, the Tip of the Style is likewise of a pale yellow colour

Flowers in May

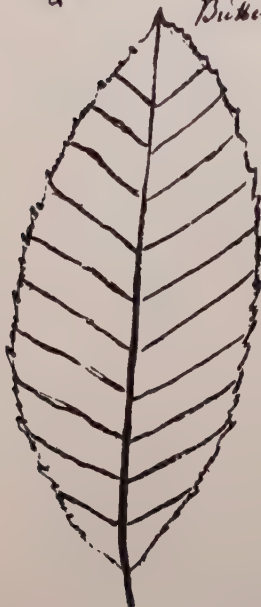
N<sup>o</sup> 261. *Hyoseris*



N<sup>o</sup> 262 *Myrica*  
Sweet Fern



N<sup>o</sup> 263 *Juglans*  
Pittenger's



N<sup>o</sup> 264. The inner cup  
of the *Saracena*



N<sup>o</sup> 264 The flower  
leaves of the *Saracena*



N<sup>o</sup> 264 The *Pygma*  
on the top of the  
Style of the *Saracena*





N<sup>o</sup> 275. *Rubus odoratus*.

With large purple flowers

Leaf is formed of one leaf, spread open, & cut very deep, into 5 ovally holed segments, that end each in an blunt shaped point, which is as long as the oval part of the segments, the whole leaf is covered with downy hairs.

Flower consists of 5 large ovally shaped leaves, spread flat, & set upon the leaf.

Hairs are very numerous, being above 100 short fine threads, of unequal length, inserted into the leaf, their tips are roundish & double.

Stamens are numerous, the seed stamens are seated on the bottom of the leaf, ovary shaped & bent, their tips are hoary, the styles are short bent threads, the tip is hoary.

The leaf of the seed is plain & flat covered over with decayed seed stamens, having never seen more than 3 or 4, on a Receptacle, that have come to perfect seeds.

Seeds are naked, somewhat oval shaped, with a crooked point on the small end. Some of the seeds are covered with a red pulpy substance somewhat like that which covers the seed in the black Cherry, yet even when they have this pulp about them, I never saw above 2 seeds on a Receptical.

Stalks are round, hairy, stiff & woody.

Leaves have each a long round hairy leaf stalk, & are placed alternately they are as broad as they are long, about 8 inches over each way are heart shaped at bottom, the top & sides together, are cut into 5 large sharp pointed segments, but not deep, the middle, or top, one is largest, the edge of the leaf is cut into small irregular claws teeth, they are stiff & hairy & have 5 large fibers, extended like rays from the top of the leaf stalk, one towards the point of every segment, with other smaller ones, placed alternately on each side of these, & yet smaller ones, crossing them again.

N. It is difficult to determine whether be a *Rubus* or not.

This Bush grows in moist ground, and is about 5 feet high  
Flowers in June.

No. 275.

## Rubus odoratus.

*With large purple flowers*

*Cup* is formed of one Leaf, spread open, & cut very deep, into 5 ovally hollow Segments, that end each in an Awl shaped point, which is as long as the oval part of the Segments, the whole Cup is covered with brown hairs.

*Flower* consists of 5 large ovally shaped Leaves, spread flat, & set upon the Cup.

*Chives* are very numerous, being above 100 short fine threads, of unacqual length, inserted into the Cup, their Caps are roundish & double

*Pistills* are numerous, the Seed Buds are seated on the bottom of the Cup, ovally shaped & bent, their tops are hoary, the Styles are short bent Threads, the Tip is hoary.

*The Seat of the Seed* is plain & flat cover'd over with decay'd Seed Buds, having never seen more than 3 or 4, on a Receptical, that have come to perfect Seeds

*S'eeds* are naked, somewhat oval shaped, with a crooked point on the small end. Some of the Seeds are cover'd with a red pulpy substance somewhat like that which covers the Seed in the black Berry; yet even when they have this pulb about them, I never saw above 2 S'eeds on a Receptical.

*Stalks* are round, hairy, stiff & woody.

*Leaves* have each a long round hairy Leaf Stalk, & are placed alternately they are as broad as they are long, about 8 Inches over each Way are heart shaped at bottom, the top & sides together, are cut into 5 large sharp pointed Segments, but not deep, the middle, or top, one is largest, the edge of the Leaf is cut into small irregular S'aw Teeth, they are sofft & hairy & have 5 large fibers, extended like Rays from the top of the Leaf Stalk, one towards the point of every S'egment, with other smaller ones, placed alternately on each side of these, & yet smaller ones, crossing these again

NB. It is difficult to determiny wheter be a Rubus or not

This Bush grows in Moist Ground, and is about 5 feet high  
Flowers in June.

N<sup>o</sup> 272 *Leihospirum*



N<sup>o</sup> 273 *Rubia*



N<sup>o</sup> 274 *Pyrola*



N<sup>o</sup> 275 *Rubus*





N<sup>o</sup> 296 A species of the <sup>IV.</sup> *filipodium*, called here  
Mountain Weed

Involucrum is composed of numerous lance shaped little leaves, placed below the Whorls of flowers.

Lip is formed of one leaf, Pipe shaped, smooth & a little bent, the Mouth is cut into two, the upper lip is broad, and has 3 sharp pointed Teeth, the under lip is cut deep into 2 larger sharp pointed Teeth.

Flower is formed of one leaf, Pipe shaped, the Pipe is the length of the Lip, the Mouth is cut into two, the upper lip is oval shaped and entire, the under lip is cut into 3 scallops.

Stamens are 4 Threads, inserted into the Pipe of the flower, and are about the length of the upper lip, two of them are shorter their Sacs are roundish.

Pistil the Seed Pods are 4 in number, united together, and with short hairs on their top. The Style is a Thread longer than the Stamens. The Tip is forked.

Seeds are naked in the bottom of the Lip, they are 4 in number, of an oval 3 cornered figure, & with a small tuft of short hairs upon one end.

Root is composed of many small white fibers.

Stalk is stiff & square, & is branched out into pairs, placed oppositely, every two Branches stand across to those above, & below them.

Leaves have short leaf Stalks, & stand in pairs oppositely. They are about 2 Inches long, near half as broad, broadest near the bottom, rounded at bottom & sharp pointed at top, they are soft & smooth, have one thick fiber along the middle, & smaller circular ones on each side extend from it towards the edges, the edges are cut into a few small, thinly placed notches, like Saw Teeth.

This Weed grows in high rocky ground, & is some more than a foot high, the flowers are of a pale purple colour, & grow in very thick large Whorls or clusters, on the tops of the Branches, & at the Angles of the leaf Stalks. It smells much like Pulegium, the Country People here make a Tea of the leaves & use it for pain or sickness at their stomach  
flowers in August.



No. 296. XIV.

*A Species of the Clinopodium,*  
*call'd here* Mountain Mint

*Involucrum* is composed of numerous lancet shaped little Leaves, placed below the Whirles of flowers.

*C'up* is form'd of one Leaf, Pipe shaped, smooth & a little bent, the Mouth is cut into two, the uper Lip is broad, and has 3 sharp pointed Teeth, the under Lip is cut deep into 2 larger sharp pointed Teeth.

*flower* is form'd of one Leaf, Pipe shaped, the Pipe is the lenghtt of the Cup, the Mouth is cut into two, the uper Lip is oval shaped and intire, the under Lip is cut into 3 scallops.

*Chives* are 4 Threads, inserted into the Pipe of the flower, and are about the length of the uper Lip, two of them are shorter their Caps are roundish.

*Pistill* the Seed Buds are 4 in number, united together, and with short hairs on their top. The Style is a Thread longer than the Chives. The Tip is forked

*Seeds* are naked in the bottom of the Cup, they are 4 in number of an ovale 3 corner'd figure, & with a small tuft of short hairs upon one end

*Root* is composed of many small white fibers.

*Stalk* is stiff & square, & is branched out into pairs, placed oppositely, every two Branches stand accross to those above, & below them.

*Leaves* have short Leaf Stalks, & stand in pairs oppositely they are about 2 Inches long, near halff as broad, broadest near the bottom, rounded at bottom & sharp pointed at top, they are soft & smooth, have one thick fiber along the midle, & smaller circular ones on each side extended from it towards the edges the edges are cut into a few small, thinly placed notches, like S'aw Teeth.

This Plant grows in high rocky ground, & is some more than a foot high, the flowers are of a pale purple colour, & grow in very thick large Whirles or Clusters, on the tops of the Branches, & at the Angles of the Leaf Stalks. It smells much like Pullgium, the Country People here make a Tea of the Leaves & use it for pain or sickness at their stomach

flowers in August.

No 296 *Clinopodium*  
Mountain Mint



No 297 *Andros*



No 298 *Rutbeckia*



No 297.

*Helenium autumnale* L.

Common Cup is formed of one leaf cut half down into 18 narrow linear shaped segments, it is spread out horizontally, when the flowers first open, but afterwards turns back downwards.

Proper Cup is seated on the top of the Seed Pod, & is composed of 6 men braccious hairy, sharp pointed Teeth.

Compound flower is composed of numerous little Pipe shaped flowers in the Disk, whose Brims are cut into 5 sharp pointed Teeth, and about 15 Tongue shaped flowers in the Rays, placed in a single order, they are twice the length of the common cup, are very narrow at bottom & widen out gradually towards the top, their top is cut into three notches, the middle notch is smallest, the Disk is at first flat but afterwards becomes of a convex figure.

Stamens of the flowers in the Disk are 5 fine hairs inserted into the Pipe of the flower. Their Saps are joined forming a hollow cylinder, the flowers in the Rays have no Stamens.

Pistils of the flowers in the Disk, the Seed Pod is ovally shaped and hairy, and is crowned with the proper cup, the Style is a Thread passing through the Sives cylinder. The Top is divided into 2, & turned round. The Pistils of the flowers in the Rays are similar to those in the Disk.

Lower of the Seed cone

Seed of the flowers in the Disk is single ovally shaped, ridged very much at the bottom, & crowned with 6 small Teeth, being the Proper Cup.

The seed of the flowers in the Rays are similar to those in the Disk.

Seed of the Seed is globular & plain, or naked.

Stalk is stiff & round, appearing somewhat 3 cornered by narrow Wings, that run down from the bottom of the leaves, it is branched out alternately.

Leaves are joined alternately, & thinly, without deep wrinkles.  
They are about 3 inches long, and a third part as broad  
broadest about the middle, sharply pointed at top, and narrow  
at bottom, sending down from each edge narrow wings  
along the stalk, they have one ribber along the middle, &  
two or three very small ones on each side extending fr.  
it, & standing much upwards. the leaves are moderate  
thick, & their edges are slightly & thinly cut like saw  
teeth

This plant grows in moist ground, is about 2 feet high  
The flowers are yellow & stand single on the tops of the  
stems, the corolla flower is about 2 inches in  
diameter

flower in August.



No. 297. CIX.

## Helenium autumnale. L.

*Common Cup* is formed of one Leaf cut half down into 15 narrow lance shaped S'gments, it is spread out horizontally, when the flowers first open, but afterwards turns back downwards.

*Proper Cup* is seated on the top of the Seed Bud, & is composed of 6 membranaceous hairy, sharp pointed Teeth.

*Compound flower* is composed of numerous little Pipe shaped flowers in the Disk, whose Brims are cut into 5 sharp pointed Teeth, and about 15 Tongue shaped flowers in the Rays, placed in a single order, these are twice the length of the common Cup, are very narrow at bottom & widen out gradually towards the top, their top is cut into three scallops, the middle scallop is smallest, the Disk is at first flat but afterwards becomes of a convex figure.

*Chives* of the flowers in the Disk are 5 fine hairs, inserted into the Pipe of the flower. Their Caps are join'd forming a hollow cylinder, the flowers in the Rays have no Chives.

*Pistills of the flowers in the Disk*, the Seed Bud is ovally shaped and hairy, and is crown'd with the proper Cup, the Style is a Thread passing through the Chives cylinder. The Tip is divided into 2, & turn'd round. *The Pistills of the flowers in the Rays* are similar to those in the Disk.

*Cover of the Seed* none

*Seed of the flowers in the Disk* is single ovally shaped, ridged very small at the bottom, & crown'd with 6 small teeth, being the Proper Cup

*The Seed of the flowers in the Rays* are similar to those in the Disk.

*Seat of the Seed*, is globular & plain, or naked.

*Stalk* is stiff & round, appearing somewhat 3 cornered by narrow Wings, that run down from the bottom of the Leaves, it is branched out alternately.

*Leaves* are placed alternately, & thinly, without Leaf Stalks, they are about 3 Inches long, and a third part as broad broadest about the midle, sharp pointed at top, and narrow at bottom, sending down from each edge narrow Wings along the Stalk, they have one fiber along the midle, & two or three very small ones on each side extending fr it, & standing much upwards, the Leaves are moderately thick & their edges are slightly & thinly cut like S'aw Teeth

This Plant grows in moist Ground, is about 2 feet high The flowers are yellow & stand single on the tops of the Branches, the compound flower, is about 2 Inches in Diameter

Flower in August.

Common cup is spread out flat, & is composed of about 16 lance shaped leaves placed in a double order, & alternately, the outwards ones 8 in number are larger. Proper cup consists of 4 small teeth seated on the top of the Seed Bud. Upper flower is composed of numerous Pipe shaped flowers in the Disk, the Disk being lengthened out into a long head, and 8 or 10 Tongue shaped flowers in the Rays.

The flowers in the Disk are cylindrical, short, & their mouth is cut into five sharp pointed teeth. The little flowers in the Rays are Tongue shaped, 3 times as long as the common cup & sharp pointed.

Lines of the flowers in the Disk are 5 fine hairs, inserted into the Pyle of the flower, their tips are longer than the hairs, & are united together, forming a hollow cylinder. The flowers in the Rays have no Hairs.

Stalk of the flowers in the Disk the Seed Bud is under the Seed of the proper flower & is oblong & 3 cornered, they are separated from each other by a stalk like hollow leaf, of the length of the Seed Bud, & one of them surrounds the Disk of the flowers in the Rays, the Seed Bud is similar to those in the Disk, they have no style nor tips.

Order of the Seeds now

Seed of the flowers in the Disk is single, one following each little flower, they are long, 4 cornered & little bent, & crowned with 4 small teeth, being the proper cup, Seed of the flowers in the Rays are similar to those.

Seed of the Seed is of a long conic figure, twice the length of the common cup the stalk is the length of the seed, and is in the form of one half of a hollow cylinder, when split into two, surrounding one half of every seed, & separating them from each other.

Stalk is ridged & is branched out alternately.

Leaves have short leaf stalks, and are joined alternately, the lower leaves are divided almost to the foot stalk into 3, each part is of an ovally sharp pointed figure, the middle part is largest, the edges are cut like very large teeth, with each of the 3 parts of the leaf has a straight fiber along the middle, with a few circular ones on each side of it extending upwards. The leaves about the middle of the plant, are not so deeply divided as the lower ones and the leaves at the top are entire, only the edges of all are cut like saw teeth. Towards to top of the plant, the leaf stalks grow gradually shorter. The leaves are all harsh to the touch and the lower ones more so.

The plant grows in moist ground, & is about 3 or 4 feet high, the leaves are yellow & stand single on the top of the branches.

Flower in August.

## Rudbeckia triloba.

*Common cup* is spread out flat, & is composed of about 16 lancet shaped Leave placed in a double order, & alternately, the outwards ones 8 in number are larger

*Proper Cup* consists of 4 small teeth, seated on the top of the Seed Bud

*Compound flower* is composed of numerous Pipe shaped flowers in the Disk, /the Disk being lengthened out into a long head/ and 8 or 12 Tongue shaped flowers in the Rays.

*Little flowers in the Disk* are cylindrical, short, & their mouth is cut into five sharp pointed teeth. The little flowers in the Rays are Tongue shaped, 3 times as long as the common Cup & sharp pointed

*Chives of the flowers in the Disk* are 5 fine hairs, inserted into the Pipe of the flower their Caps are longer than the Chives, & are united together, forming a hollow cylinder. The flowers in the Rays have no Chives.

*Pistill of the flowers in the Disk* the Seed Bud is under the Seat of the proper flower & is oblong & 3 corner'd, they are separated from each other by a Chaff like hollow Leaf, of the length of the Seed Bud, & one of them surrounding ea

*Pistill of the flowers in the Rays*, the Seed Bud is similar to those in the Disk, they have no Style nor Tip.

*Cover of the Seeds none*

*Seed of the flowers in the Disk* is single, one following each little flower, they are long, 4 corner'd & little bent, & crown'd with 4 small teeth, being the proper Cup, *Seed of the flowers in the Rays* are similar to those.

*Seat of the Seed* is of a long conic figure, twice the length of the common Cup the Chaff is the length of the Seed, and is in the form of one halff of a hollow cylinder, when split into two, surrounding one halff of every Seed, & separating them from each other.

*Stalk* is ridged & is branched out alternately.

*Leaves* have short Leaf Stalks, and are placed alternately, the lower Leaves are devided almost to the foot Stalk into 3, each part is of an ovally sharp pointed figure, the midle part is largest, the edges are cut like very large Saw Teeth, each of the 3 parts of the Leaf, has a straight fiber along the midle, with a few circular ones on each side of it extending upwards. The Leaves about the midle of the Plant, are not so deeply devided as the lower ones and the Leaves at the top are intire, only the edges of all are cut like Saw Teeth. Towards to top of the Plant, the Leaf Stalks grow gradually shorter. The Leaves are all harsh to the touch and the lower ones most so

This Plant grows in moist Ground, & is about 3 or 4 feet high, the flowers are yellow & stand single on the tops of the Branches.

Flower in August.



N<sup>o</sup> 309.

XXI.  
*Quercus alba*  
White Oak Tree

Male flowers are arranged in a loose fashion.

Cup is very small, formed of one thin shiny roundish leaf, its edge is cut into 5, 6, or 7, irregularly bluntly pointed segments.

Stamens are very short threads, and are from 5 to 10 in number their tips are large roundish & double.

Stamens none

Female flowers grow 2 or 3 together in a cluster.

Cup is formed of one leaf, it is thick & fleshy & the edges is cut into very small notches

flower leaves & stamens none

While the seed pod is roundish, sitting the cup, & rising a little above its rim. The styles are 3 in number, but so very short they can scarcely be called any, the tips are large knobs

Lower to the seed none

Seed is an ovally figured nut, blunt at bottom & pointed at top, smooth & hard, it is placed within the cup, the cup covering about one third of its length, this cup is exactly of a hemispherical figure, the outside is very rough, being covered with hard, bumpy sharp pointed scales.

This Tree grows from 50 to 80 feet high, the trunk is straight & generally divided to the top, but sometimes it divides itself into 2 or 3 branches. The general branches are placed irregular. The bark is rough & cracked, the largest cracks runs along the tree, with small ones crossing the ridges.

Leaves have each a short bumpy leaf stalk, when they first burst out they are in clusters, but as the new shoots lengthen, they are placed alternately on it, are about 6 inches long & 3 broad, broadest about the middle, sharp pointed at bottom, each side is cut more than half way in towards the middle rib, into three

irregular oval shaped lobes, these lobes are placed oppositely  
in an odd lobe ends the leaf at top, they have one thick  
fiber along the middle, or 3 thick veins, extending from it  
on each side, one through the middle of each lobe, with  
other very small fibers crossing these.

The leaves are smooth & firm, & the edges of the lobes  
are entire.

The Catkins hang about 20 of them in a cluster, together  
on the tops of the old branches. The female flowers grow  
2 or 3 together upon one foot stalk, at the corners of the  
leaf stalks, towards the top of the new branches.

Flowers in May.

No. 309. XXI.

## Quercus alba

### White Oak Tree

*Male flowers* are arranged in a loose Catkin.

*Cup* is very small, formed of one thin skinny roundish Leaf, its edge is cut into 5, 6, or 7, irregularly bluntly pointed Segments.

*Chives* are very short Threads, and are from 5 to 10 in number their Caps are large roundish & double.

*Pistill none*

*female flowers* grow 2 or 3 together in a Cluster.

*Cap* is formed of one Leaf, it is thick & fleshy & the edges is cut into very small notches

*flower Leaves & Chives none*

*Pistill* the Seed Bud is roundish, fitting the Cup, & rising a little above its Brim, The Styles are 3 in Number, but so very short they can scars be call'd any, the Tips are large Knobs

*Cover to the Seed none*

*Seed* is an ovally figured Nut, blunt at bottom & pointed at top, smooth & hard, it is placed within the Cup, the Cup covering about one third of its length, this Cup is exactly of a hemispherical figure, the outside is very rough, being covered with hard, bumped sharp pointed Scales.

This Tree grows from 50 to 80 feet high, the Trunk is straight & generally indevided to the top, but sometimes it divides itself into 2 or 3 Branches. The General Branches are placed irregular The Bark is rough & craaked, the largest Cracks runs along the Tree, with small ones crossing the ridges.

*Leaves* have each a short bumped Leaf Stalk, when they first but out they are in Clusters, but as the new Shoots lengthens, they are placed alternately on it, are about 6 Inches long & 3 broad, broadest about the middle, sharp pointed at bottom, each side is cut

more than halff way in towards the midle Rib, into thre irregular oval shaped Lobes, these Lobes are placed oppositely in an odd Lobe ends the Leaf at top, they have one thick fiber along the midle, & 3 thick ones, extending from it on each side, one through the midle of each Lobe, with other very small fibers crossing these.

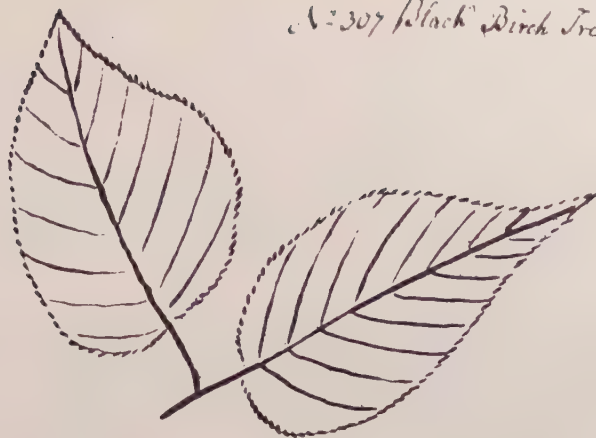
The Leaves are smooth & firm, & the edges of the Lobes are intire

The Catkins hang about 20 of them in a Cluster, together on the tops of the old Branches. The female flowers grow 2 or 3 together upon one foot Stalk, at the Corners of the Leaf Stalks, towards the top of the new Branches.

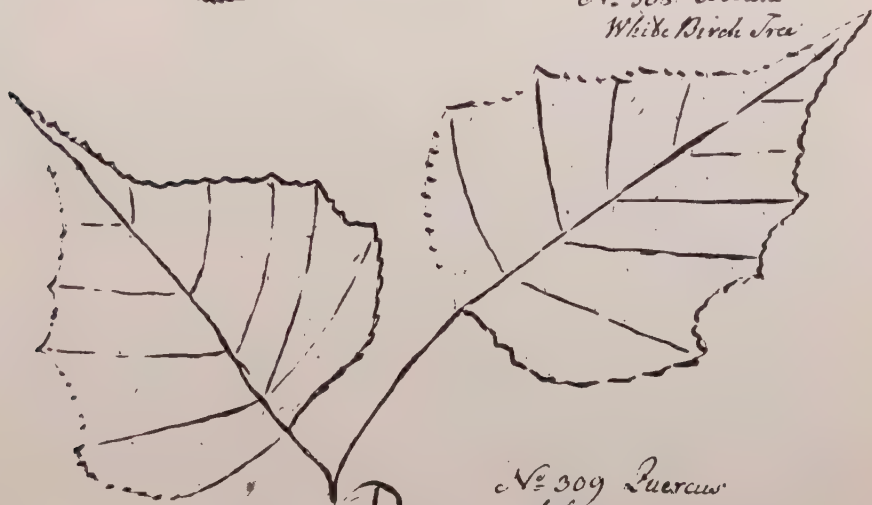
flowers in May



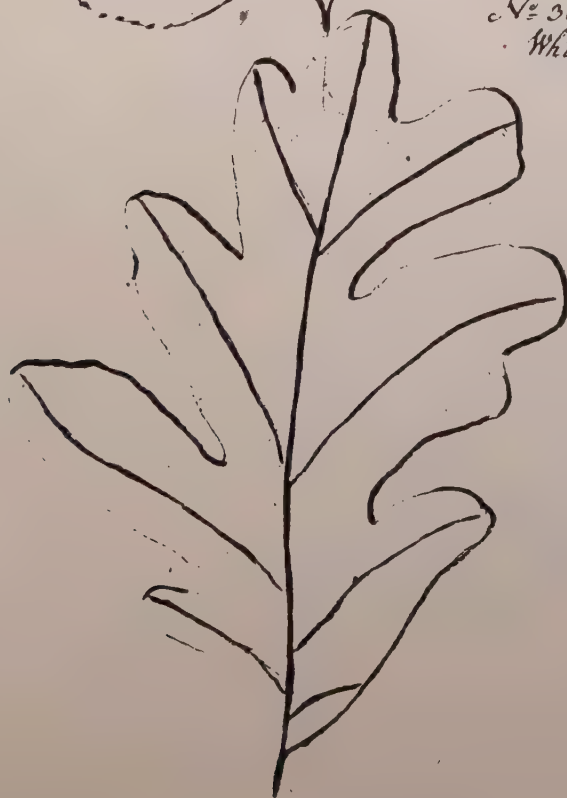
*Betula Linla*  
 N° 307 Black Birch Tree



N° 308. *Betula*  
 White Birch Tree



N° 309 *Quercus*  
 White Oak?



cup none, unless the flower leaves be called so  
Flower consists of 6 ovally sharp pointed thin leaves, turned round backwards  
Stamens are 6. Threads, shorter than the flower leaves, their lays are oval shaped  
 & double

Pistil the Seed bed is globular & large. Styles are 3 moderately thick. Threads  
 about half an Inch long, which is twice the length of the flower leaves, and  
 they turn downwards over the flower leaves. The Seeds are plain

Fruit is a globular, smooth black Berry, having but little Pulp, & containing  
 3 seeds.

Seeds are 4 in number in each cell, sometimes not so many, they are roundish  
 & irregularly covered, not all alike, some are longish, & pointed at one end.

Root is oblong Does not extend downwards, but lies along the surface of  
 the ground, making an angle with the stalk, is about the bigness of a  
 Mans little finger, exceeding white & tender, sending out a few very  
 slender fibers

Stalk rises single, is round, slender, & about 1 foot or  $\frac{1}{2}$  foot high

Leaves grow in two Whirls, one of them placed at about  $\frac{2}{3}$  of the length  
 of the stalk, from the bottom & the other at the top of the stalk. The  
 lowest Whirl is composed of about 6 or 8 ovally sharp pointed leaves  
 about  $2\frac{1}{2}$  or 3 inches long & half as broad, broadest in the middle, & sharp  
 pointed at both ends, without leaf stalks, are thin & smooth, have 3  
 lines extended from one point of the leaf to the other, the edges are entire  
 The Whirl at the Top of the stalk is composed of about 3 or 5 leaves  
 these are near as broad as the others, but about half as long, are bro-  
 ad at towards the bottom, & rounded there, but sharp pointed at Top.  
 in other respects like the lower leaves.

Flowers are of a pale yellow colour, grow from 3 to 10 together, at  
 the top of the stalk, each having a separate foot stalk, of about half  
 an Inch long, and bend downwards; when the Berries ripens their foot  
 stalk become of a bright red colour, & also the under end of those  
 leaves directly under them.

This Plant grows in moist ground

Flowers in May & June

## Medeola Virg.

*C'up* none, unless the flower L'eaves be call'd so

*flower* consists, of 6 ovally sharp pointed thin Leaves, turn'd round backwards

*Chives* are 6 Threads, shorter than the flower Leaves, their Caps are oval shaped & double

*Pistill* the Seed Bud is globular & large. Styles are 3 moderately thick Threads about halff an Inch long, which is twice the length of the flower Leaves, and they turn downwards over the flower Leaves, The Tips are plain

*Fruit* is a globular, smooth black Berry, having but little Pulp, & containing 3 Cells.

*Seeds* are 4 in number in each Cell, sometimes not so many, they are roundish & irregularly cornered, not all alike, some are longish, & pointed at one end.

*Root* is oblong does not extend downwards, but lies along the Surface of the Ground, making an Angle with the Stalk, is about the bigness of a Mans little finger, exceeding white & tender, sending out a few very slender fibers

*Stalk* rises single, is round, slender, & about 1 foot or  $1\frac{1}{2}$  foot high

*L'eaves* grow in two Whirls, one of them placed at about  $\frac{2}{3}$  of the length of the Stalk, from the bottom & the other at the top of the Stalk. The lowest Whirl is composed of about 6 or 8 ovally sharp pointed Leaves about  $2\frac{1}{2}$  or 3 Inches long & halff as broad, broadest in the middle, & sharp pointed at both ends, without Leaf Stalks, are thin & smooth, have 3 Lines extended from one point of the Leaf to the other, the edges are intire The Whirl at the Top of the Stalk is composed of about 3 or 5 Leaves These are near as broad as the others, but about halff as long, are broadest towards the bottom, & rounded there, but sharp pointed at Top. in other respects like the lower Leaves.

Flowers are of a pale yellow colour, grow from 3 to 10 together, at the top of the Stalk, each having a separate foot Stalk, of about halff an Inch long, and bend downwards; when the Berries ripens their foot Stalk become of a bright red colour, & also the under end of those Leaves directly under them.

This Plant grows in moist Ground

flowers in May & Juny

N<sup>o</sup> 314. *Aristolochia serpentaria* L.  
Virginia Snake Root

Sup note

Flower is formed of one leaf, is somewhat Pipe shaped, but of a very singular figure, is bellied at bottom, so as to be almost globular, & drawn in about the middle, in the form of a short cylinder, and widens out again above the cylindrical part forming another nearly globular figure, at this place the flower leaf is bent, so as to make an acute angle & on the top of the uppermost globular part, is placed the Brim, which widens out, & forms two blown up roundish hollow lips, which nearly close the upper one resembling the lip of a Horn.

Chive they consists only of six or sometimes 5 Lips, Anthers and are placed round the top of the Style, (Stigma) they are roundish flat & double.

Style The Seed Pod is placed below the Seed of the flower and appears like the top of the foot Path, widened out, with 6 ridges along it. The Style is a very short cylinder. The Top is large & divided into 6, sometimes 5 parts, each part is in the form of the Bowl of a Spoon, with the hollow side outwards. The Antherae are placed in the hollows of these divisions of the Stigma, one in each.

Lower of the Seed is a globular Box, six cornered, with a ridge along each corner, composed of 6 Valves, the Valves to be open at the corners, but have a ridge along the middle of each, & contains 6 fells.

Fells there are 4 in each fell, they are somewhat oval shaped, broad at one end & narrow pointed at the other, very much hollowed in on one side, with a bit of flesh extended along the middle of the hollow, they are of a whitish colour.



Root is fibrous

Stalks several arise from one Root. They are round, hairy, and  
solid at the joints & leaning.

Leaves have each a short channeled leaf stalk, & are placed al-  
ternately, are heart shaped, about 2 1/2 inches long, & some  
more than half as broad as long, deeply hollowed in the base  
& sharp pointed at top, they are soft & smooth, have one  
fiber extended all along the middle, & one on each side exten-  
ding but little more than half ways, there are also other  
small fibers branching out from these, & forming Arches  
near the edges of the leaf, the edges are entire

This Plant grows in moist ground, is about half a foot  
high, the flowers are of a dark purplish colour, have  
each a foot stalk, near an inch long, many of which  
foot stalks, rise directly from the Root, & lie along the  
surface of the ground, some few grow from the angles  
of the leaf stalks, there is one, or sometimes two, very  
small leaves upon each foot stalk.

This is the *Serpentaria* used in the Shops, the virtues of  
it is generally known.

Flowers in July & August.

No. 314. XX.

## Aristolachia Serpentaria. L.

### Virginia Snake Root

*C'up none*

*Flower* is form'd of one Leaf, is somewhat Pipe shaped, but of a very singular figure, is bellied at bottom, so as to be almost globular, & drawn in about the middle, in the form of a short cylinder, and widens out again above the cylindrical part forming another nearly globular figure, at this place the flower Leaf is bent, so as to make an accute Angle & on the top of the upermost globular part, is placed the Brim, which widens out, & forms two blown up roundish hollow Lips, which nearly close the uper one resembling the Lip of a Hare.

*Chives* they consists only of six /or sometimes 5/ Caps,/Antherae and are placed round the top of the Style, / Stigma/ they are roundish flat & double.

*Pistill* The Seed Bud is placed below the Seat of the flower and appears like the top of the foot Stalk, widen'd out, with 6 ridges along it. The Style is a very short cylinder. Th Tip is large & devided into 6, sometimes 5 parts, each part is in the form of the Bowl of a Spoon, with the hollow'd side outwards. The *Antherae* are placed in the hollows of these devisions of the *Stigma*, one in each.

*Cover of the Seed* is a globular Box, six cornered, with a ridge along each corner, composed of 6 Valves, the Valves to not open at the Corners, but have a ridge along the middle of each, & contains 6 Cells.

*Seds* there are 4 in each Cell, they are somewhat oval shaped, broa at one end & narrow pointed at the other, very much hollow'd in on one side, with a tit of Chaff extended along the middle of the hollow, they are of a whitisch colours

*Root* is fibrous

*Stalks* several grow from one Root, they are round, hairy, angled at the joints & leaning.

*Leaves* have each a short channelled Leaf Stalk, & are placed alternately, are heart shaped, about  $2\frac{1}{2}$  Inches long, & some more than halff as broad as long, deeply hollow'd in the base & sharp pointed at top, they are soft & smooth, have one fiber extended all along the middle, & one on each side extending but little more than halff ways, there are also other small fibers branching out from these, & forming Arches near the edges of the Leaf, the edges are intire

This Plant grows in moist Ground, is about halff a foot high, the flowers are of a dark purpelish colour, have each a foot Stalk, near an Inch long, many of which foot Stalks, rise directly from the Root, & ly along the Surface of the Ground, some few grow from the angles of the Leaf Stalks, there is one, or sometimes two, very small Leaves upon each foot Stalk.

This is the S'erpentaria used in the S'hops, the Virtues of it is generally known.

Flowers in July & August.

No 310



No 311  
Cissampelos



No 312 *Tripterodonta*



No 314 *Aristolochia*  
*virginica* (Jack & S)





1857

*Alisma cordifolia* V. p.  
Water Plantain

Tip is formed of one leaf, cut deep into 3 roundish hollow segments, with membranaceous edges & continuous  
flower consists of 3 roundish leaves, smaller than the segments of the sepals  
filices are 6 fine threads, the length of the flower leaves, their tips are roundish & double

Stipules the Seed Pods are numerous about 15 placed close together forming a spike, they are flattened, & end in a small crooked point there is no style. The Tip is a small hoary knob.

Seeds 12 or 15 naked seeds

Stalk is smooth, bluntly 3 cornered, & about 2 1/2 feet high, naked that is without leaves. The Branches are placed on the upper half of the stalk, 6 or 7 of them grow together from one joint in a wheel, spreading out equally on every side of the stalk there are 6 or 7 of these wheel of Branches one above another which grow gradually smaller towards the top of the stalk, so that all together they form a regular pyramidal figure the Branches are also 3 cornered, the larger Branches have wheels of smaller Branches upon them

Leaves many grow from the root, with each a long charmed foot stalk, they are somewhat of an oval figure, about 6 inches long & half as broad in the middle, sharp pointed at top, & slightly hollowed in at the bottom, their edges are entire, they are very smooth, have one large fiber along the middle & 3 small ones on each side of it extended along the leaf.

The flowers are small & white, they grow in wheels on the top of the Branches, have each a foot stalk, some of which are an inch & half long, & others scarce half an inch there are several wheels of the flowers one above another upon the same Branch, & each wheel is composed of 6 or 7 flowers. There is 3 very small sharp pointed leaves under each wheel of Branches, & likewise under each wheel of flowers.

This Plant grows in Brooks  
flowers in July.

No. 327.

## Alisma ordifolia

### Water Plantain

C'up is form'd of one Leaf, cut deep into 3 roundish hollow Segment with membranacious edges & continues

*flower* consists of 3 roundish Leaves, smaller than the S'egments of the Cup

Chives are 6 fine Threads, the length of the flower Leaves, their Caps are roundish & double.

Pistills the Seed Buds are numerous about 15 placed close together forming a Circle, they are flattend, & end in a small crooked point There is no Style. The Tip is a small hoary Knob.

*Seeds* 12 or 15 naked Seeds

*Stalk* is smooth, bluntly 3 corner'd, & about  $2\frac{1}{2}$  feet high, naked that is without Leaves. The Branches are placed on the uper halff of the Stalk, 6 or 7 of them grow together from one joint in a Whirl, spreading out eaqually on every side of the Stalk There are 6 or 7 of these Whirl of Branches one above another which grow gradually smaller towards the top of the Stalk, so that all together they form a regular pyramidal figure the Branches are also 3 corner'd, the larger Branches have Whirls of smaller Branches upon them

*Leaves* many grow from the Root, with each a long channelld foot Stalk, they are somewhat of an oval figure, about 6 Inches long & halff as broad in the midle, sharp pointed at top, & slightly hollow'd in at the bottom, their edges are intire, they are very smooth, have one large fiber along the midle & 3 small ones on each side of it extended along the Leaf.

The flowers are small & white, they grow in Wherls on the tops of the Branches, have each a foot Stalk, some of whic are an Inch & halff long, & others scarce halff an Inch there are several Whirls of the flowers one above another upon the same Branch, & each Wherl is composed of 6 or 7 flowers. There is 3 very small sharp pointed Leaves under each Wherl of Branches, & likewise under each Whirl of flowers.

This Plant grows in Brooks

flowers in July.

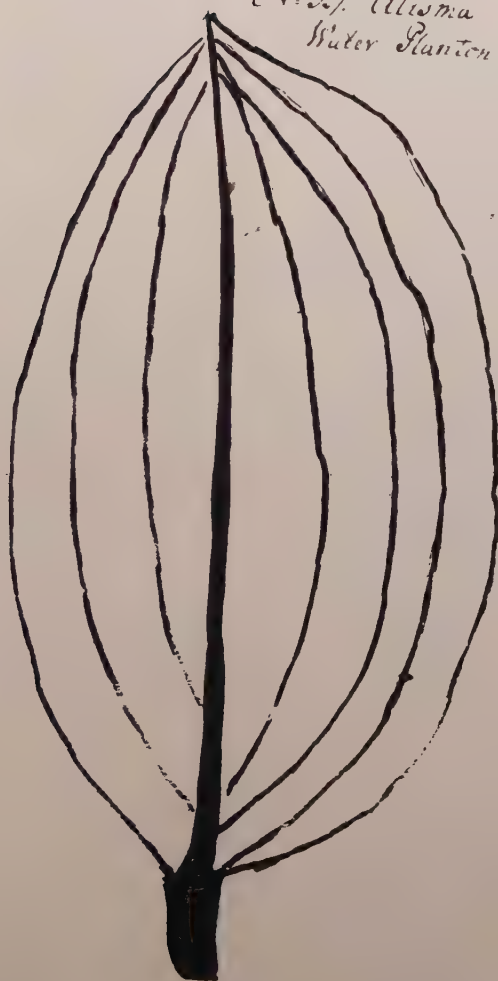
8. 2. 26. *Ullima*



c 8. 2. 8. *Mollugo*



c 8. 2. 27. *Ullima*  
*Water Plantain*



N<sup>o</sup> 332.

<sup>W. 1.</sup>  
*Synanthera palustris*

Cap is seated on the top of the Seed Pod composed of 12 semicircular leaves a little pointed at top; they lean towards each other & enclose the (Reins). It continues

Flowers leaves none

Chives are 4 short Threads, set on the top of the Seed Pod, their caps are roundish & double, adhering all together surround the top of the Style.

Pod the Seed Pod is cylindrical, smaller at bottom than at top the Style is a very small cylinder, the length of the sup, Style plain lower of the Pod is somewhat cylindrical, towards the bottom small box & A corner, with the sup continuing on its top, containing A falls, the Box does not open but falls with the seeds.

Seeds are numerous small and oblong.

This Plant grows in Brooks & very Wet Ground

Stalks are round & smooth and about 1<sup>st</sup> foot long, of a redish colour, they ly along the surface of the ground, & send down fibrous roots from the joints, the Branches are placed in pairs oppositely

Leaves are placed in pairs oppositely, with each a leaf stalk about  $\frac{2}{3}$  as long as it self, they are of an ovally shape about 1 inch long &  $\frac{2}{3}$  thirds as broad in the middle, sharp pointed at top and narrow at bottom, sending down narrow wings on each side of the leaf stalk, they have one thick fiber along the middle & small circular ones on each side extended from it towards the edges, the edges are entire

The flowers are green, & grow in pairs oppositely at the corners of the leaf stalks

Flower in August.



No. 332. IV. I.

## Isnardia palustris

*Cup* is seated on the top of the Seed Bud composet of 4 semicircular Leaves a little pointed at top; they lean towards each other and cover the Chives. It continues

*flower Leaves none*

*Chives* are 4 short Threads, set on the top of the Seed Bud, their Caps are roundish & double, adhering all together surround the top of the Style.

*Pistill* the Seed Bud is cylindrical, smaller at bottom than at top the Style is a very small cylinder, the length of the Cup, Tip is plain

*Cover of the Seed* is somewhat cylindrical, towards the bottom smallest & 4 cornered, with the Cup continuing on its top, containing 4 Cells, the Box does not open but falls with the Seed.

*Seeds* are numerous small and oblong.

This Plant grows in Brooks & very Wet Ground

*Stalks* are round & smooth and about  $1\frac{1}{2}$  foot long, of a redish colour, they ly along the Surface of the Ground, & send down fibrous Roots from the joints, the Branches are placed in pairs oppositely

*Leaves* are placed in pairs oppositely, with each Leaf Stalk about  $\frac{2}{3}$  as long as it self, they are of an ovally shape about 1 Inch long &  $\frac{2}{3}$  thirds as broad in the midle, sharp pointed at top and narrow at bottom, sending down narrow Wings on each side of the Leaf Stalk, they have one thick fiber along the midle & small circular ones on each side extended from it towards the edges, the edges are intire

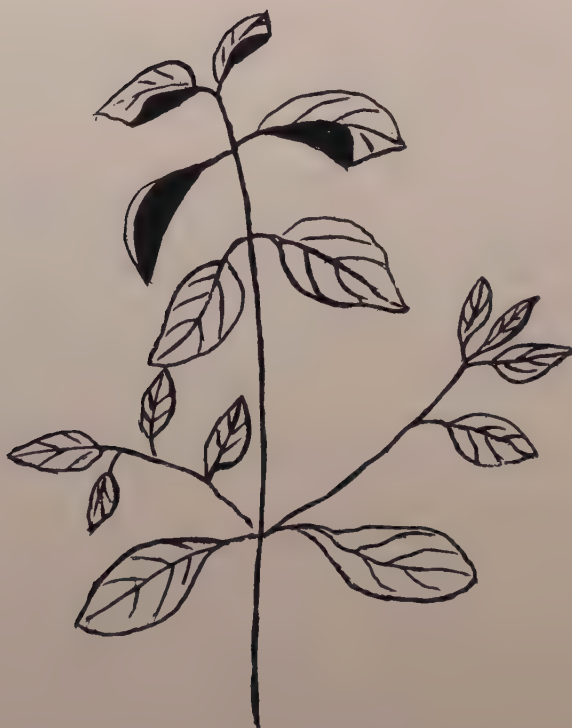
The flowers are green, & grow in pairs oppositely at the Corners of the Leaf Stalks

Flower in August.

c 12 331 *Prunus*  
Wild Plum Tree



c 12 332 *Ternardia*



(89.330) ~~Thalictrum~~ *Convalaria racemosa* L.  
a species of *Convalaria*

Tip rose

flowers consist of 4 short lance shaped white leaves turned down  
backward

Stems are 4 threads near as long as the flower leaves, their tips  
are oval shaped & set across

While the seed pod is globular & white, the style is a flattened thread  
near as long as the flower, the tip is slightly divided into two.  
stalk is round & smooth, without branches & about 11 inches  
high.

Leaves are 12 in number upon the plant that bear flowers, there  
are many plants with only a single leaf, but these bear no  
flowers when there are two they are placed alternately oppo-  
site at about an inch distance facing each other, with  
very short leaf stalks, are heart shaped, sharp  
pointed, very smooth, with small veins extended along  
them.

The plant grows in moist ground the flowers grow in  
a spike on the top of the stalk, each with a slender  
leaf stalk

flowers in Septemb.

No. 336.

## Convallaria raumosa. L.

### a Species of Convallaria

*Cup* none

*flower* consists of 4 short lancet shaped white Leaves turned down backwards.

*Chives* are 4 Threads near as long as the flower Leaves, their Caps are oval shaped & set accross

*Pistill* the Seed Bud is globular & white, the Style is a flattend Thread near as long as the Chives, the Tip is slightly devided into two.

*Stalk* is round & smooth, without Branches & about 4 Inches high.

*Leaves* are 2 in number upon the Plant that bears flowers, there are many Plants with only a single Leaf, but these bear not flowers when there are two they are placed alternately oppositely at about an Inch distance facing each other, with very short ho      Leaf Stalks, are heart shaped, sharp pointed, very smooth, with small Lines extended along them.

This Plant grows in Moist Ground, the flowers grow in a Spike on the top of the Stalk, each with a slender foot Stalk

flowers in Septemb.



N<sup>o</sup> 336 *Convallaria*  
*unifolium*



N<sup>o</sup> 337 *Asplenium*



c 12 340

*Physalis* 11.1.  
*Veronica* *folia quatuor gemina* *frons*  
call here *Indian Physick*

Leaf is small form of one leaf, cut deep into 5 sharp pointed segments, the uppermost one is shortest. Continuing  
flower is form of one leaf, pipe shaped & a little bent & three times as long as the leaf, the Brim is cut into 4 unequal sharp pointed segments the uppermost one is broadest, & the lowermost one is narrower than the two opposite side ones.

Stems are two Threads, twice the length of the flower leaf & inserted into the Pipe, their tips are oval shaped & double

Pistil the Red Bud is roundish, the Style is a fine Thread, shorter than the Stems, the Tip is plain, & continues, till the Red is near ripe

Cover of the Red is an oval sharp pointed Box, with two furrows along it opening at top into 4 parts, containing two cells

Seeds are numerous, oval shaped & small

Seat of the Red is in the middle of the Box.

Stalk is single & without Branches, unless you call the Spikes of flowers on it Top so.

Leaves grow in Whirls round the Stalk, most commonly 4 together, sometimes there are only 3, & sometimes 5 & 6 in a Whirl, with very short leaf stalks, & are about 4 or 5 inches long, & 1 broad, broader in the middle & sharp pointed at both ends, their edges are finely cut like Saw Teeth, they have one thick fiber along the middle, with small arched ones on each side of it.

This Plant grows in Wet ground, & is about 4 feet high, the flowers are white, have no partial foot stalks, & are set very thick together upon long Spikes, that grow at the top of the Stalk, there are generally the same number of Spikes, that there are leaves in Whirls.

Flower in August.

A. S. Sometimes the Red Box has 3 furrows along it & opens at top into 6 parts containing 3 cells.

No. 340. II. I.

## Virginicus

Veronica folis quaternis giunisie G'ronov.

*Calld here* Indian Physick

*Cup* is small form'd of one Leaf, cut deep into 5 sharp pointed Segments, the upermost one is shortest. Continuing

*flower* is form'd of one Leaf, pipe shaped & a little bent & three times as long as the Cup, the Brim is cut into 4 unequal sharp pointed Segments the upermost one is broadest, & the undermost one is narrower than the two opposite side ones.

*Chives* are two Threads, twice the length of the flower L'eaf & inserted into the Pipe, their Caps are oval shaped & double

*Pistill* the Seed Bud is roundish, the Style is a fine Thread, shorter than the Chives, the Tip is plain, & continues, till the Seed is near ripe.

*Cover of the Seed* is an oval sharp pointed Box, with two furrows allong it opening at top into 4 parts, containing two Cells

*Seeds* are numerous, oval shaped & small

*S'eet of the Seed* is in the middle of the Box.

*Stalk* is single & without Branches, unless you call the Spikes of flowers on it Top so.

*Leaves* grow in Whirls round the Stalk, most commonly 4 together, sometimes there are only 3, & sometimes 5 & 6 in a Whirl, with very short Leaf Stalks, & are about 4 or 5 Inches long, & 1 broad, broadest in the middle & sharp pointed, at both ends, their edges are finely cut like Saw Teeth; they have one thick fiber along the middle, with small arched ones on each side of it.

This Plant grows in Wet Ground, & is about 4 feet high, the flowers are white, have no partial foot Stalks, & are set very thick together upon long Spickes, that grow at the top of the Stalk, there are generally the same Number of Spickes, that there are Leaves in a Whirl.

*flower* in August.

NB. Sometimes the Seed Box has 3 furrows along it & opens at top into 6 parts containing 3 Cells.

No. 38 *Campanula*



No. 39 *Campanula*



No. 340 *Veronica*  
*Indian Physic.*





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<i>Hedysarum</i> - - - - -	139
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<i>Ditto</i> a Vine - - - - -	290
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<i>Hysoscy</i> - - - - -	261
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<i>Juglans</i> , Butternut - - -	263
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M.	N <sup>o</sup>
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N.	N <sup>o</sup>
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O.	N <sup>o</sup>
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<i>Ditto</i>	260
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*Continued from front flap*

carrying the basket which must shelter the precious branches, flowers, leaves, roots and seeds of the newly discovered plants, which must be classified, cured and dried, to be sent to botanists in America and Europe for further study, and finally included in the index of world plant life.

Her life was too short; yet she has left us an invaluable legacy, her manuscript, now in the British Museum. From this fascinating legacy this 208 page monograph has been published, consisting of plant descriptions, illustrations and index.

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The Garden Club of Orange  
and Dutchess Counties of  
New York



N<sup>o</sup> 17 *Trifolium*



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Jane Colden  
published  
by  
The Garden Club  
of  
Orange and Dutchess Counties

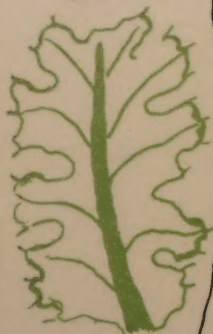
N<sup>o</sup> 16 *Pastina*



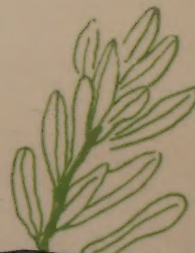
N<sup>o</sup> 19 *Salvia*



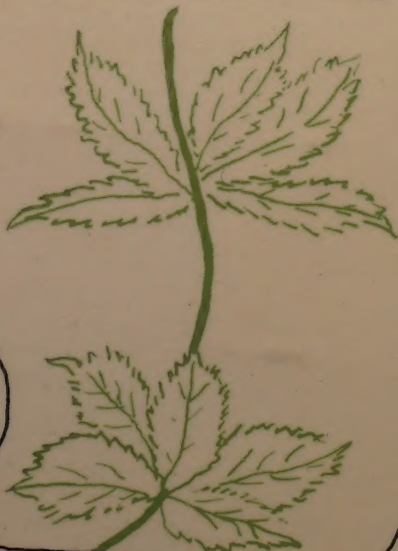
N<sup>o</sup> 39 *Carduus*  
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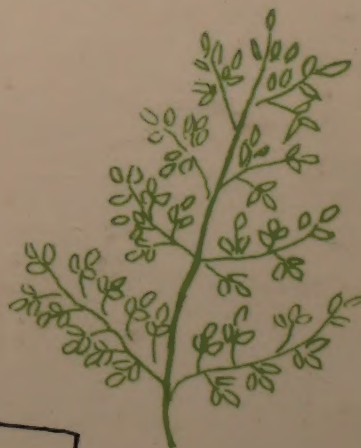
N<sup>o</sup> 18 *Hysopus*



N<sup>o</sup> 64 *Sanicula* Black Snake Root



N<sup>o</sup> 20 *Daucus*



N<sup>o</sup> 38 *Cornus*  
Dog Wood

